NASA CR-
141586

TECHNICAL REPORT

EFFECTS OF PROCESSING VARIABLES ON THE SENSITOMETRIC PROPERTIES OF EASTMAN KODAK FILM TYPE 2445

Prepared Under

Contract NAS 9-11500
Task Order HT-59

(NASA-CR-141586) EFFECTS OF PROCESSING VARIABLES ON THE SENSITOMETRIC PROPERTIES OF EASTMAN KODAK FILM TYPE 2445 (Technicolor, Inc., Houston, Tex.) 96 p HC $4.75 CSCL 14E

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G3/35 10004

Prepared By

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Photoscientist

November 1972

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National Aeronautics and Space Administration
Manned Spacecraft Center
Houston, Texas

Technicolor Graphic Services, Inc.

EFFECTS OF PROCESSING VARIABLES ON THE SENSITOMETRIC PROPERTIES OF EASTMAN KODAK FILM TYPE 2445

This Report has been reviewed and is approved.

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Technical Monitor

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INTRODUCTION

This report describes the sensitometric characteristics of Kodak Color Negative Film Type 2445 with processing in a 1411 Versamat with Kodak Aero-Neg. Color Process Chemicals. These characteristics were determined for various combinations of machine speed, pre-hardener temperature, and 1st. developer temperature.

TEST PROCEDURES

1. Process one 2445 sensitometric strip in the color negative process for each of the following conditions:

First Developer Temperature	Machine Speed
96°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
98°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
100°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
102°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
104°F	5, 5.5, 6, 6.4, 7, 7.5 fpm

Prehardner Temperature	Machine Speed
96°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
100°F	5, 5.5, 6, 6.4, 7, 7.5 fpm
104°F	5, 5.5, 6, 6.4, 7, 7.5 fpm

This will result in the following matrix of sensitometric strips.

Prehardener	1st Dev	MACHINE SPEEDS 5	5.5	6	6.4	7	7.5
96°	96°						
	98°						
	100°	X	X	X	X	X	X
	102°						
	104°						
100°	96°	X	X	X	X	X	X
	98°	X	X	X	X	X	X
	100°	X	X	X	X	X	X
	102°	X	X	X	X	X	X
	104°	X	X	X	X	X	X
104°	96°						
	98°						
	100°	X	X	X	X	X	X
	102°						
	104°						

2. Read and plot all sensitometric strips using visual and Status M filters.

TEST RESULTS

Due to the nature of the test, the results are reported as a series of D Log E curves which can be found in the Appendix. Table I provides a listing of the results for critical parameters including, base plus fog, AFS speed, red-green separation, and blue-green separation at 1.0 density and the density range between base plus fog and the 21st step. These same parameters are shown graphically in Figures 1-5.

PROCESS	BASE PLUS FOG	AFS RELATIVE SPEED POINT	FOR ABSOLUTE LOG E 7.17 5500°K 1/50sec AFS SPEED	RED-GREEN SEPARATION AT 1.0 D	GREEN-BLUE SEPARATION AT 1.0 D	VISUAL STEP 21	ΔD STEP 21 BASE + FOG
96/100/5	.28	.66	222	.10	.35	2.74	2.46
96/100/5.5	.22	.70	202	.08	.38	2.52	2.30
96/100/6	.21	.76	176	.09	.40	2.38	2.17
96/100/6.4	.18	.79	164	.11	.38	2.29	2.11
96/100/7	.16	.86	140	.10	.41	2.15	1.99
96/100/7.5	.16	.90	128	.10	.42	2.13	1.97
100/96/5	.19	.74	185	.13	.33	2.51	2.32
100/96/5.5	.16	.80	161	.20	.43	2.32	2.16
100/96/6	.14	.85	143	.12	.44	2.22	2.08
100/96/6.4	.14	.96	111	.04	.38	2.05	1.91
100/96/7	.14	1.03	95	.09	.48	1.95	1.81
100/96/7.5	.12	1.08	84	.11	.46	1.82	1.70
100/98/5	.21	.62	243	.08	.43	2.64	2.43
100/98/5.5	.18	.72	193	.10	.41	2.44	2.26
100/98/6	.16	.80	161	.10	.45	2.29	2.13
100/98/6.4	.16	.89	131	.07	.47	2.18	2.02
100/98/7	.14	.93	119	.08	.47	2.08	1.94
100/98/7.5	.14	.95	114	.09	.48	1.98	1.84
100/100/5	.24	.60	255	.04	.42	2.61	2.37
100/100/5.5	.21	.69	207	.08	.43	2.44	2.23
100/100/6	.16	.70	202	.07	.43	2.30	2.14
100/100/6.4	.15	.75	180	.08	.45	2.22	2.07
100/100/7	.14	.86	140	.05	.50	2.02	1.88
100/100/7.5	.14	.96	111	.09	.44	1.94	1.80
100/102/5	.31	.57	273	.07	.34	2.86	2.55
100/102/5.5	.26	.61	249	.07	.38	2.62	2.36
100/102/6	.22	.67	217	.08	.39	2.48	2.26
100/102/6.4	.21	.73	189	.06	.40	2.40	2.19
100/102/7	.18	.75	180	.07	.41	2.25	2.07
100/102/7.5	.18	.83	150	.07	.40	2.16	1.98
100/104/5	.43	.50	321	.09	.33	2.95	2.52
100/104/5.5	.31	.53	299	.07	.35	2.73	2.42
100/104/6	.27	.60	255	.08	.35	2.73	2.46
100/104/6.4	.24	.63	238	.08	.38	2.62	2.38

TABLE I

PROCESS	BASE PLUS FOG	AFS RELATIVE SPEED POINT	FOR ABSOLUTE LOG E 7.17 5500°K 1/50sec AFS SPEED	RED-GREEN SEPARATION AT 1.0 D	GREEN-BLUE SEPARATION AT 1.0 D	VISUAL STEP 21	ΔD STEP 21 BASE + FOG
100/104/7	.22	.68	212	.07	.41	2.48	2.26
100/104/7.5	.19	.74	185	.28	.39	2.34	2.15
104/100/5	.28	.59	261	.06	.41	2.65	2.37
104/100/5.5	.23	.64	232	.06	.41	2.50	2.27
104/100/6	.20	.72	193	.07	.44	2.35	2.15
104/100/6.4	.18	.79	164	.08	.42	2.22	2.04
104/100/7	.18	.85	143	.08	.43	2.12	1.94
104/100/7.5	.17	.83	150	.09	.39	2.11	1.94

TABLE I (cont'd)

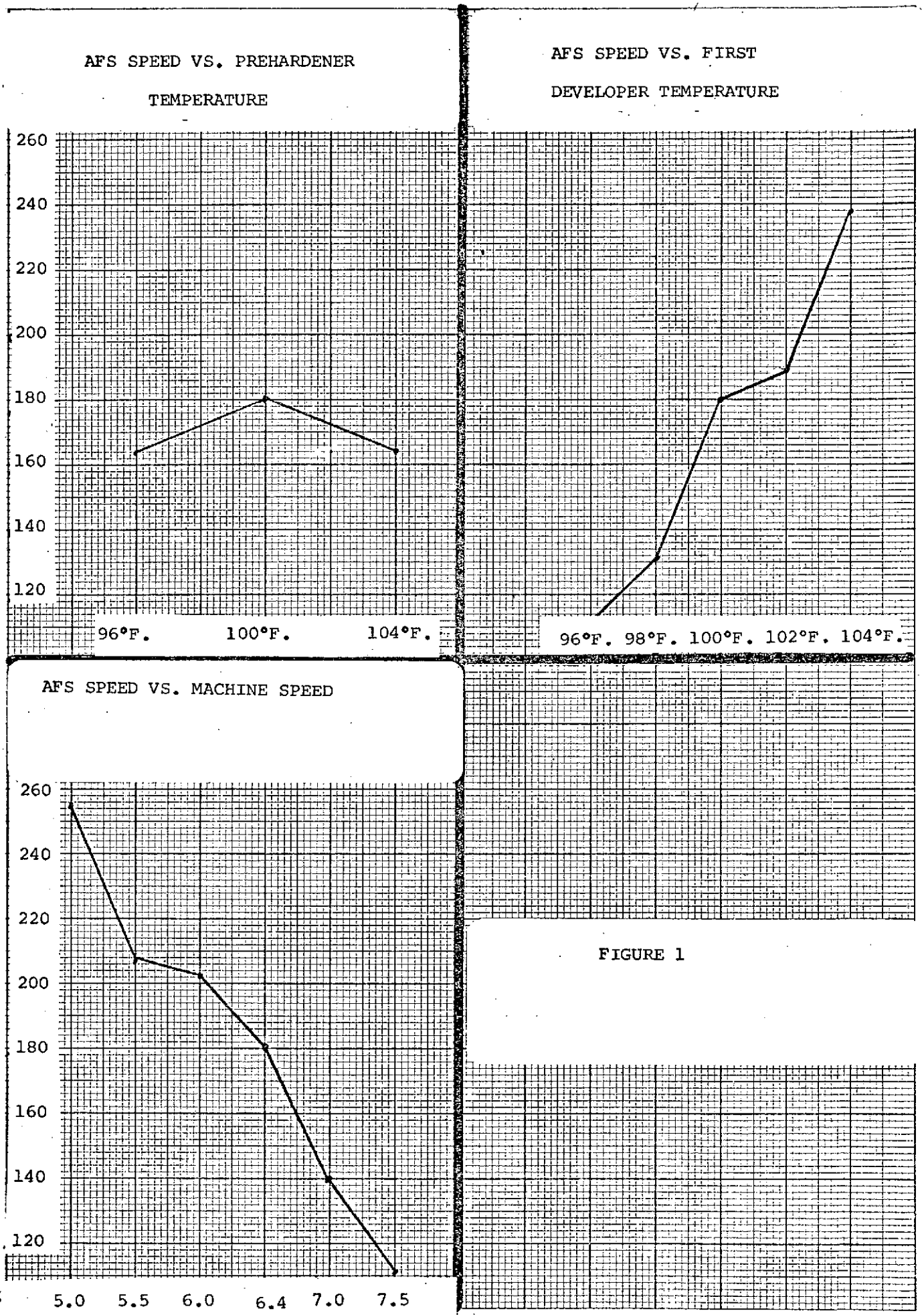

AFS SPEED VS. PREHARDENER TEMPERATURE
AERIAL FILM SPEED
260
240
220
200
180
160
140
120
96°F.
100°F.
104°F.
AFS SPEED VS. FIRST DEVELOPER TEMPERATURE
96°F. 98°F. 100°F. 102°F. 104°F.
AFS SPEED VS. MACHINE SPEED
AERIAL FILM SPEED
260
240
220
200
180
160
140
120
5.0 5.5 6.0 6.4 7.0 7.5
MACHINE SPEED

FIGURE 1

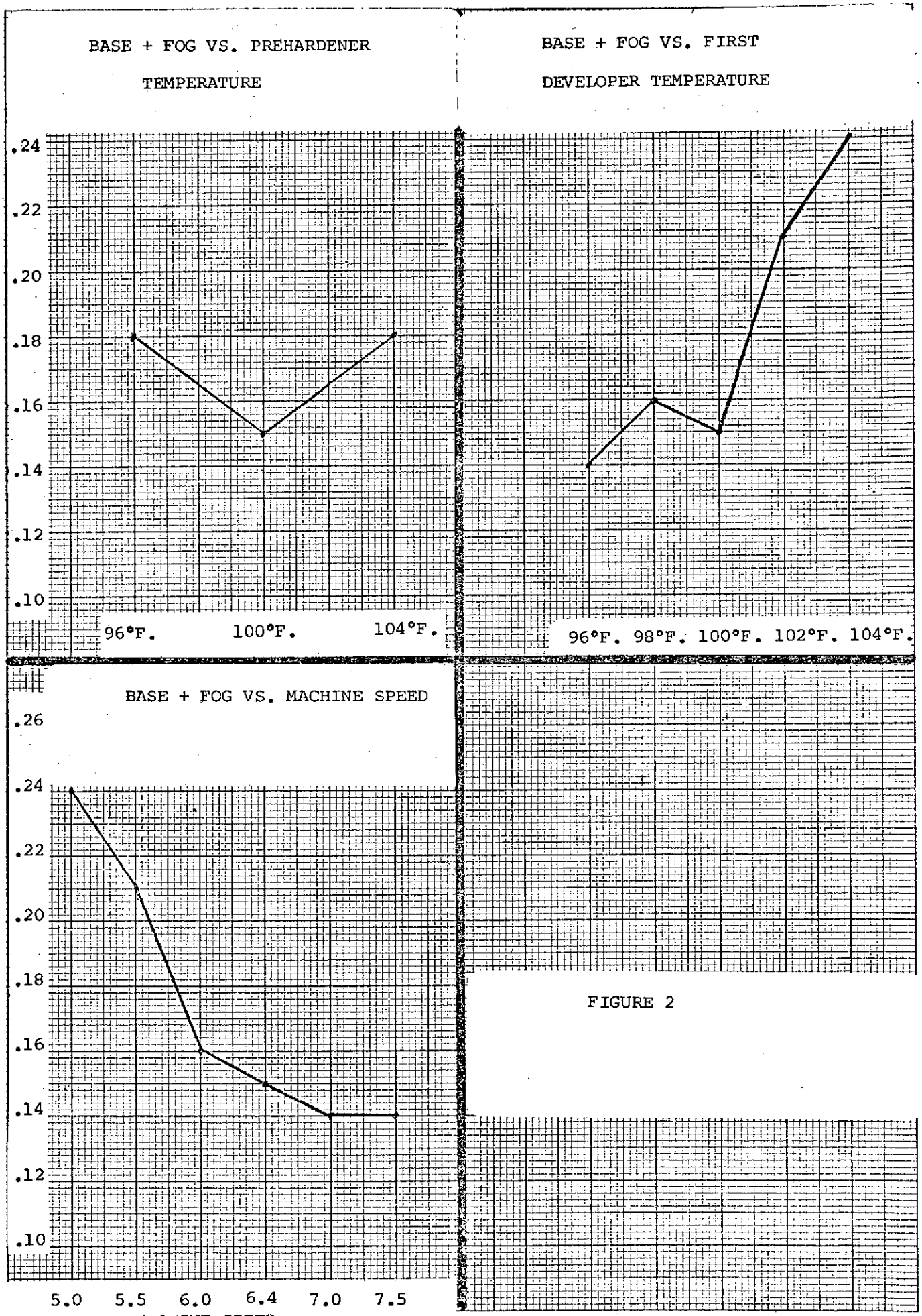

BASE + FOG VS. PREHARDENER TEMPERATURE
BASE + FOG
.24
.22
.20
.18
.16
.14
.12
.10
96°F.
100°F.
104°F.
BASE + FOG VS. FIRST DEVELOPER TEMPERATURE
96°F. 98°F. 100°F. 102°F. 104°F.
BASE + FOG VS. MACHINE SPEED
BASE + FOG
.26
.24
.22
.20
.18
.16
.14
.12
.10
5.0 5.5 6.0 6.4 7.0 7.5
MACHINE SPEED

FIGURE 2

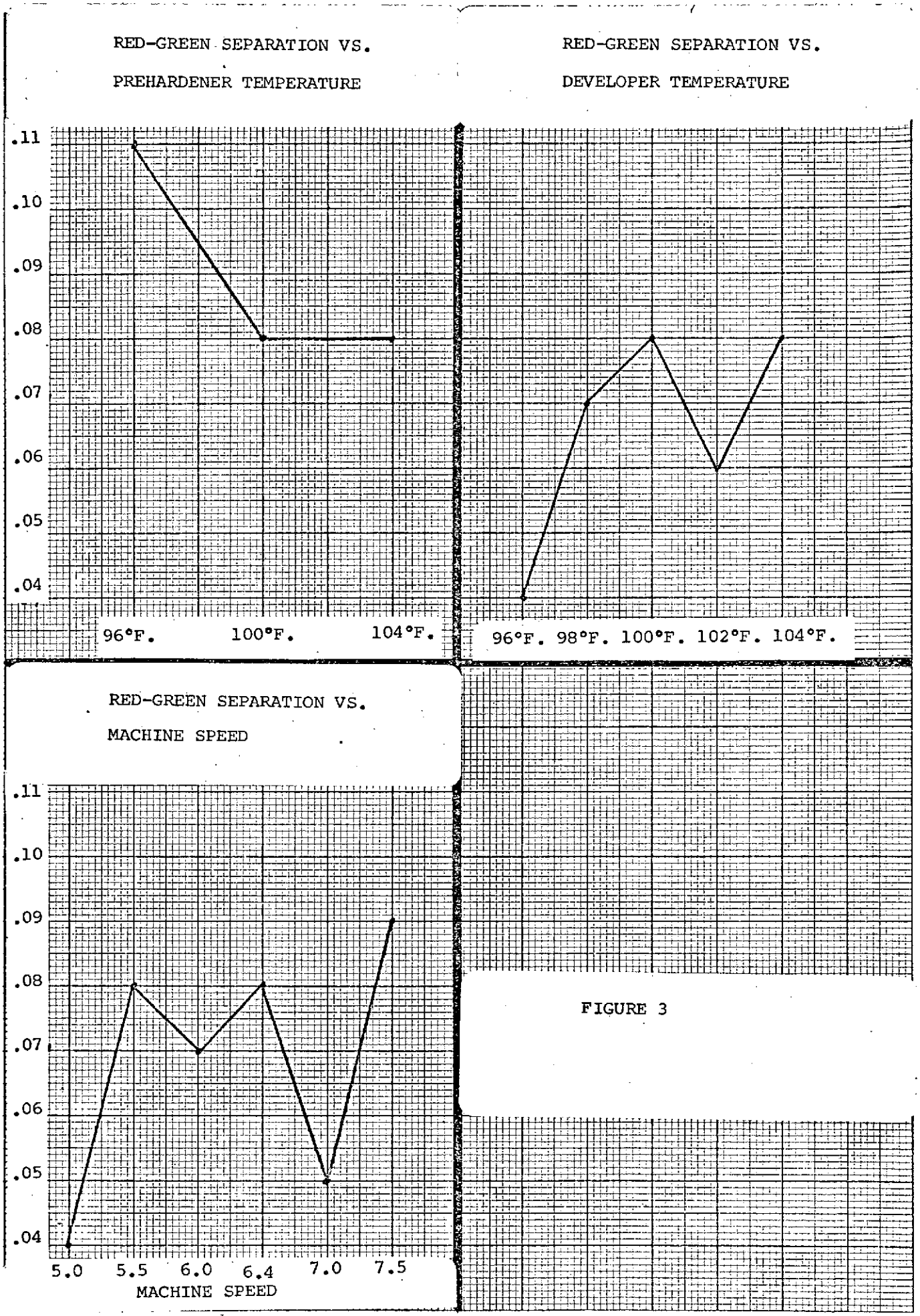

RED-GREEN SEPARATION VS.
PREHARDENER TEMPERATURE
Δ LOG E
.11
.10
.09
.08
.07
.06
.05
.04
96°F.
100°F.
104°F.
RED-GREEN SEPARATION VS.
DEVELOPER TEMPERATURE
96°F. 98°F. 100°F. 102°F. 104°F.
RED-GREEN SEPARATION VS.
MACHINE SPEED
Δ LOG E
.11
.10
.09
.08
.07
.06
.05
.04
5.0 5.5 6.0 6.4 7.0 7.5
MACHINE SPEED

FIGURE 3

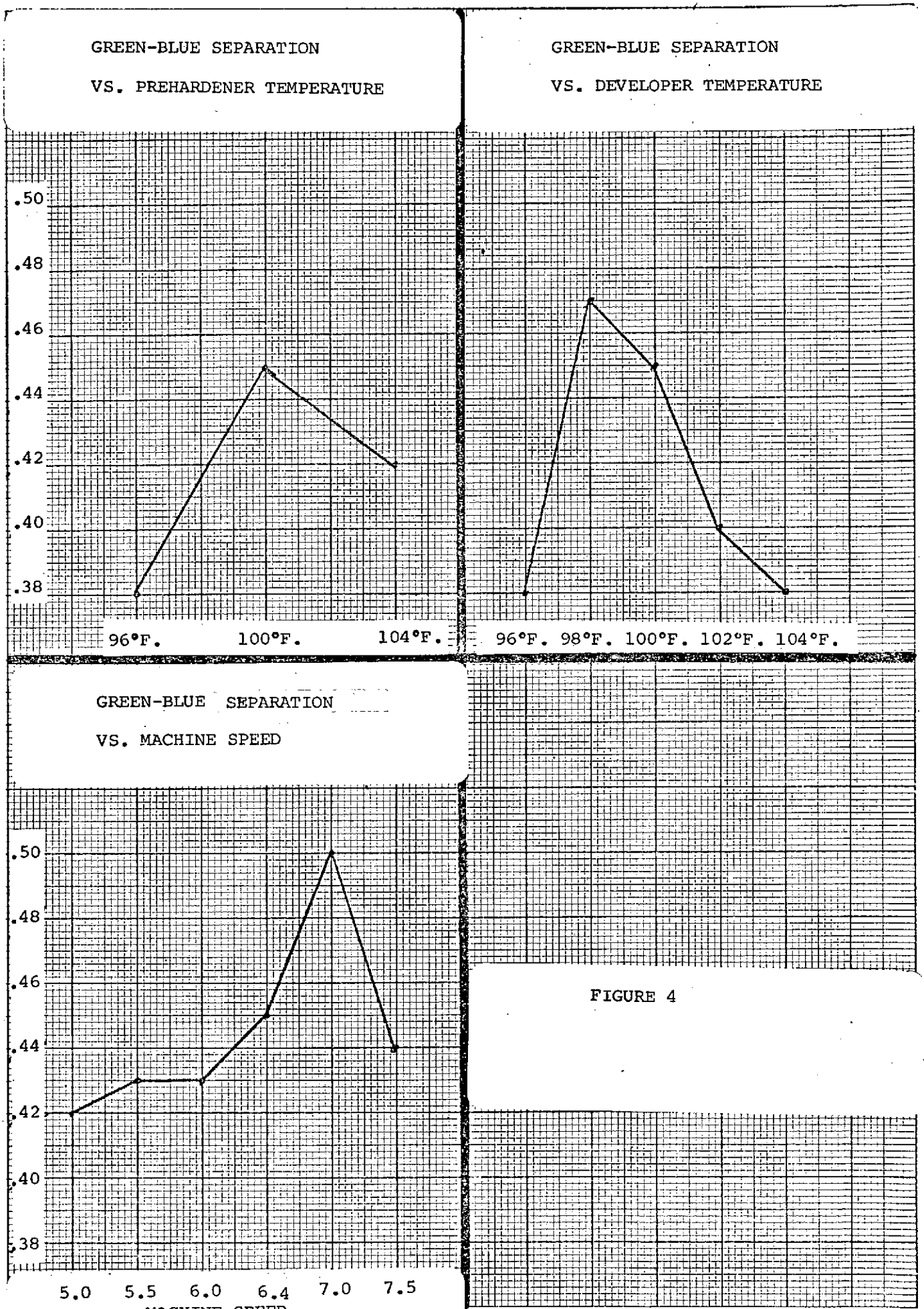
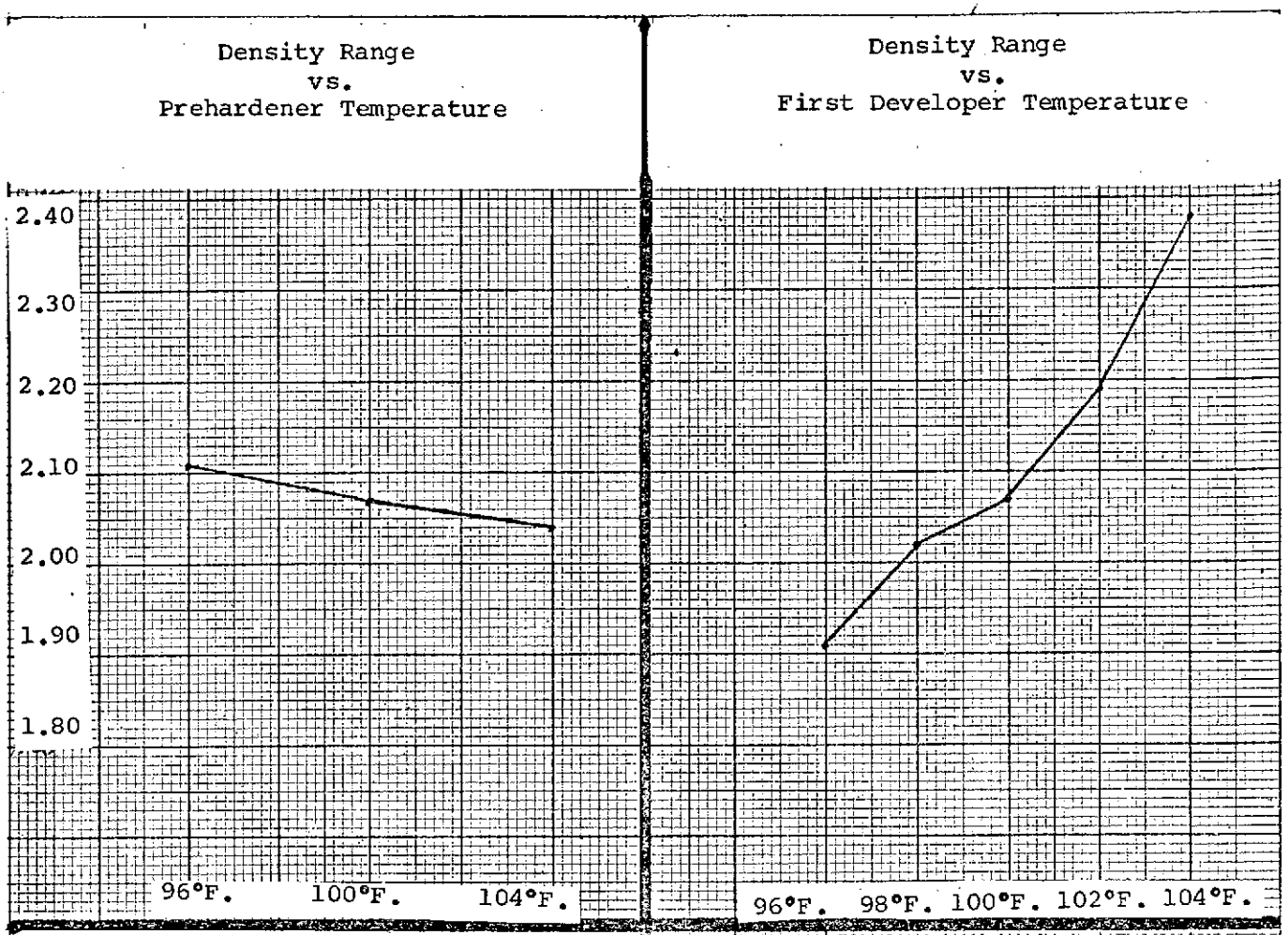

GREEN-BLUE SEPARATION
VS. PREHARDENER TEMPERATURE
Δ LOG E
.50
.48
.46
.44
.42
.40
.38
96°F.
100°F.
104°F.
GREEN-BLUE SEPARATION
VS. DEVELOPER TEMPERATURE
96°F. 98°F. 100°F. 102°F. 104°F.
GREEN-BLUE SEPARATION
VS. MACHINE SPEED
Δ LOG E
.50
.48
.46
.44
.42
.40
.38
5.0 5.5 6.0 6.4 7.0 7.5
MACHINE SPEED

FIGURE 4


Density Range
vs.
Prehardener Temperature
2.40
2.30
2.20
2.10
2.00
1.90
1.80
96°F.
100°F.
104°F.

Density Range
vs.
First Developer Temperature
96°F.
98°F.
100°F.
102°F.
104°F.

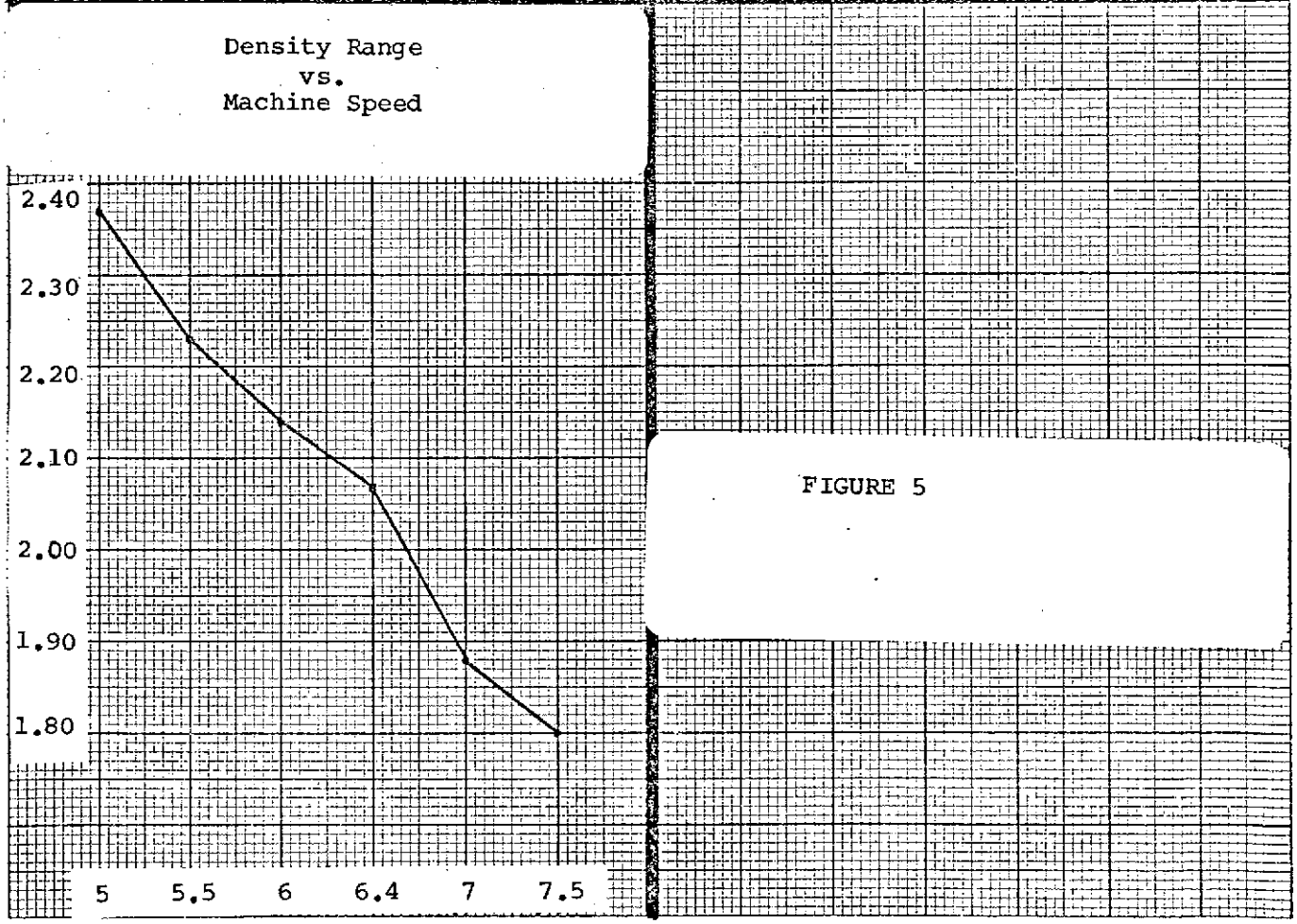

Density Range
vs.
Machine Speed
2.40
2.30
2.20
2.10
2.00
1.90
1.80
5
5.5
6
6.4
7
7.5

FIGURE 5

APPENDIX

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DATE June 72 CONTROL # 0-22 100° Preh. 96° TASK HT-59 PREPARED BY E. L.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2350 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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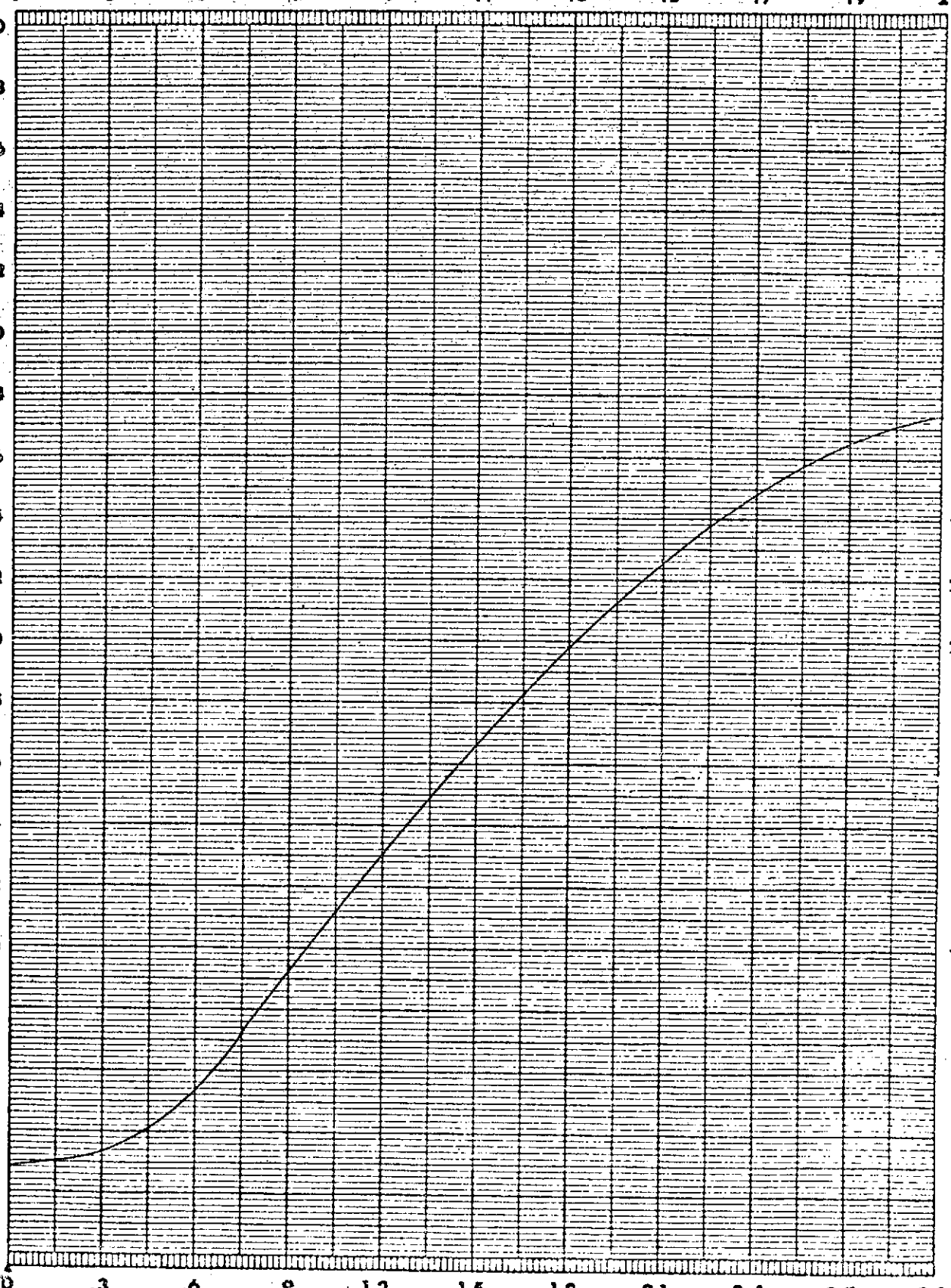

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

7.10 -10

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DATE June 72 CONTROL # C-22 Preh. 100 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____
pH _____
TA _____
TPP _____
KB, _____

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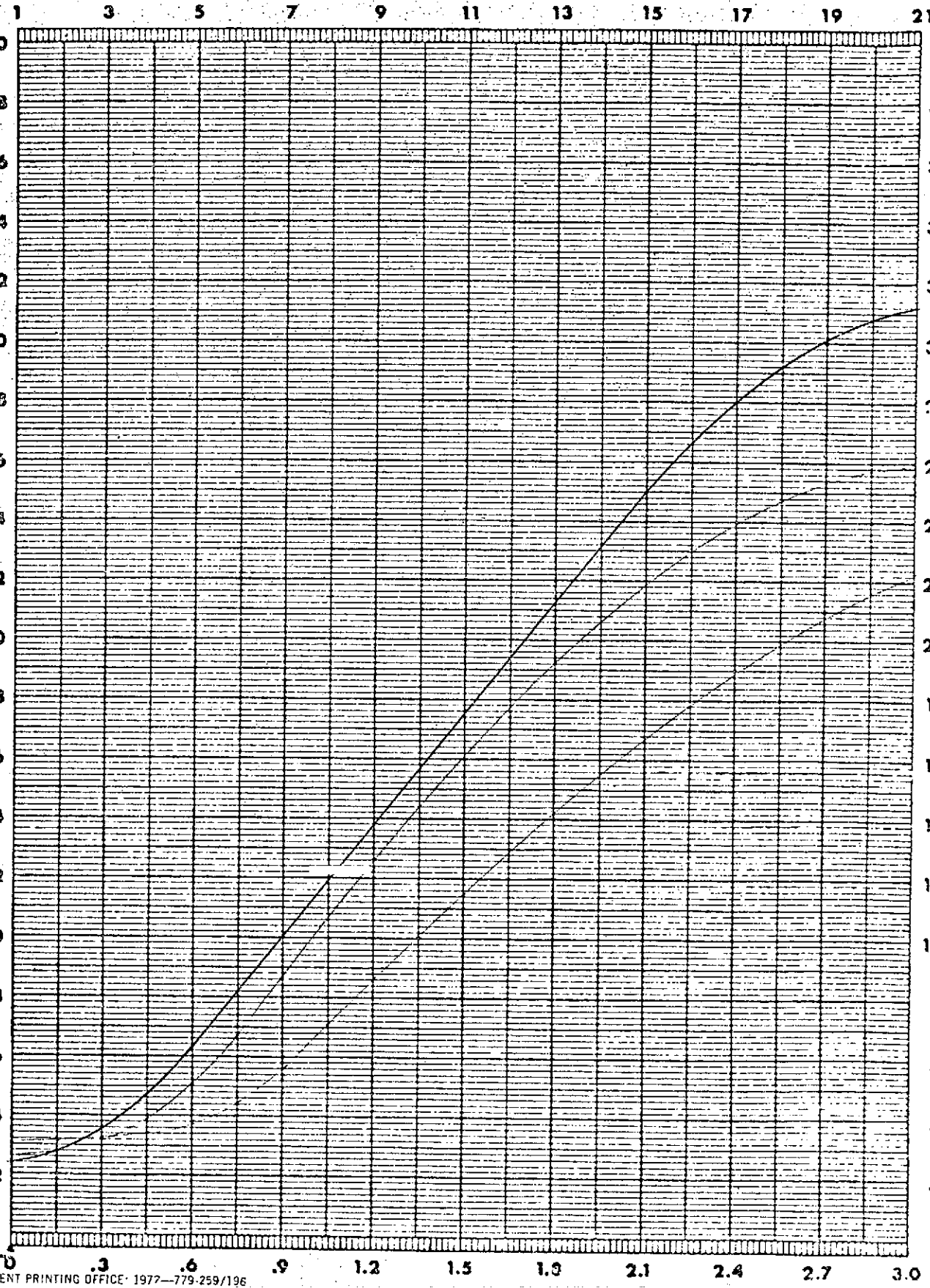

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ABSOLUTE LOG E AT R.L.E. - 0

-10

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35

DATE June 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM / GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual / BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TBP

_____ KBr

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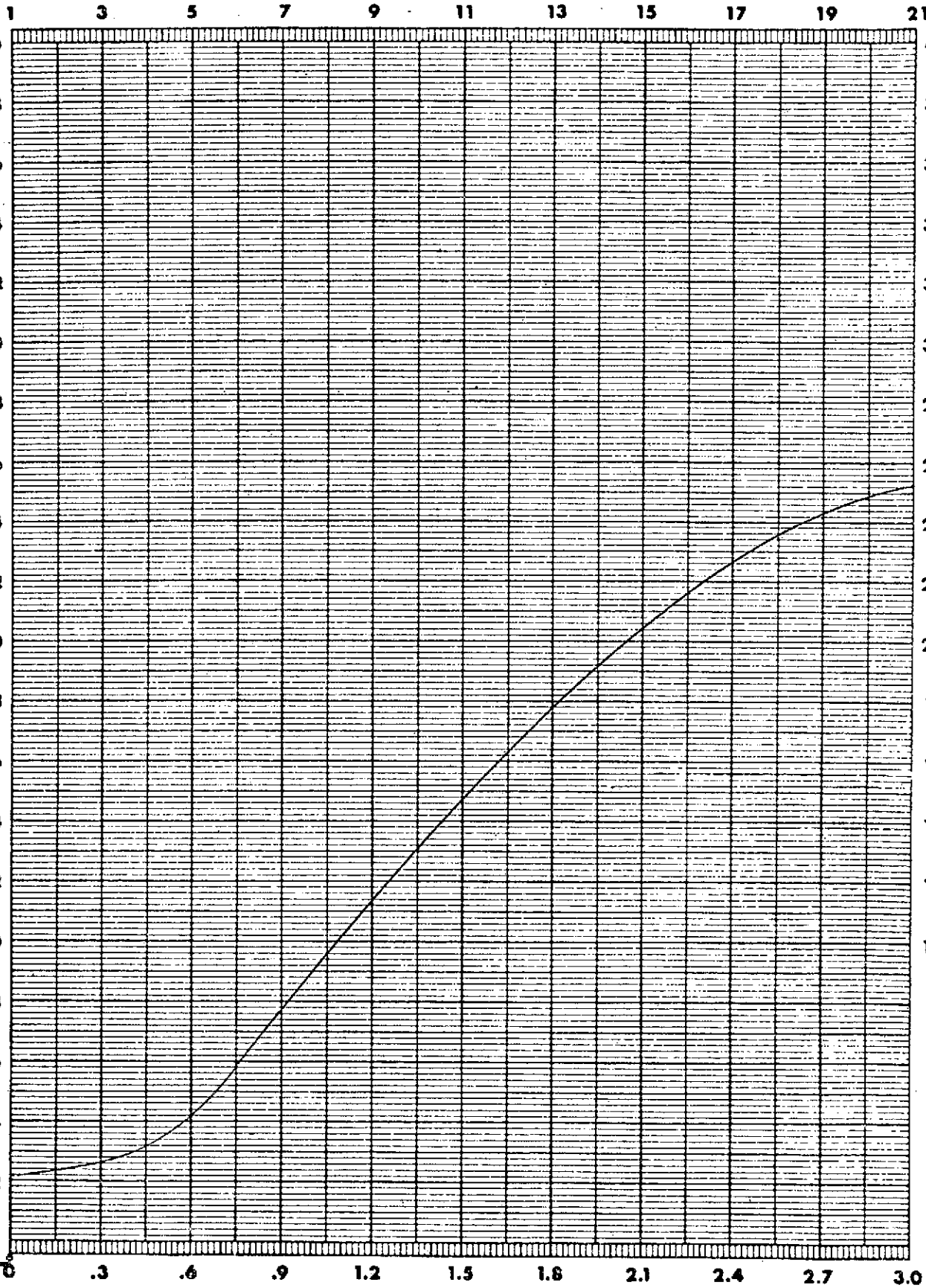

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ABSOLUTE LOG E AT R.L.E. = 0

-10

T71-21

C-22 100°

DATE June 72 CONTROL # Preh. 96° TASK HT-59 PREPARED BY E H

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status I

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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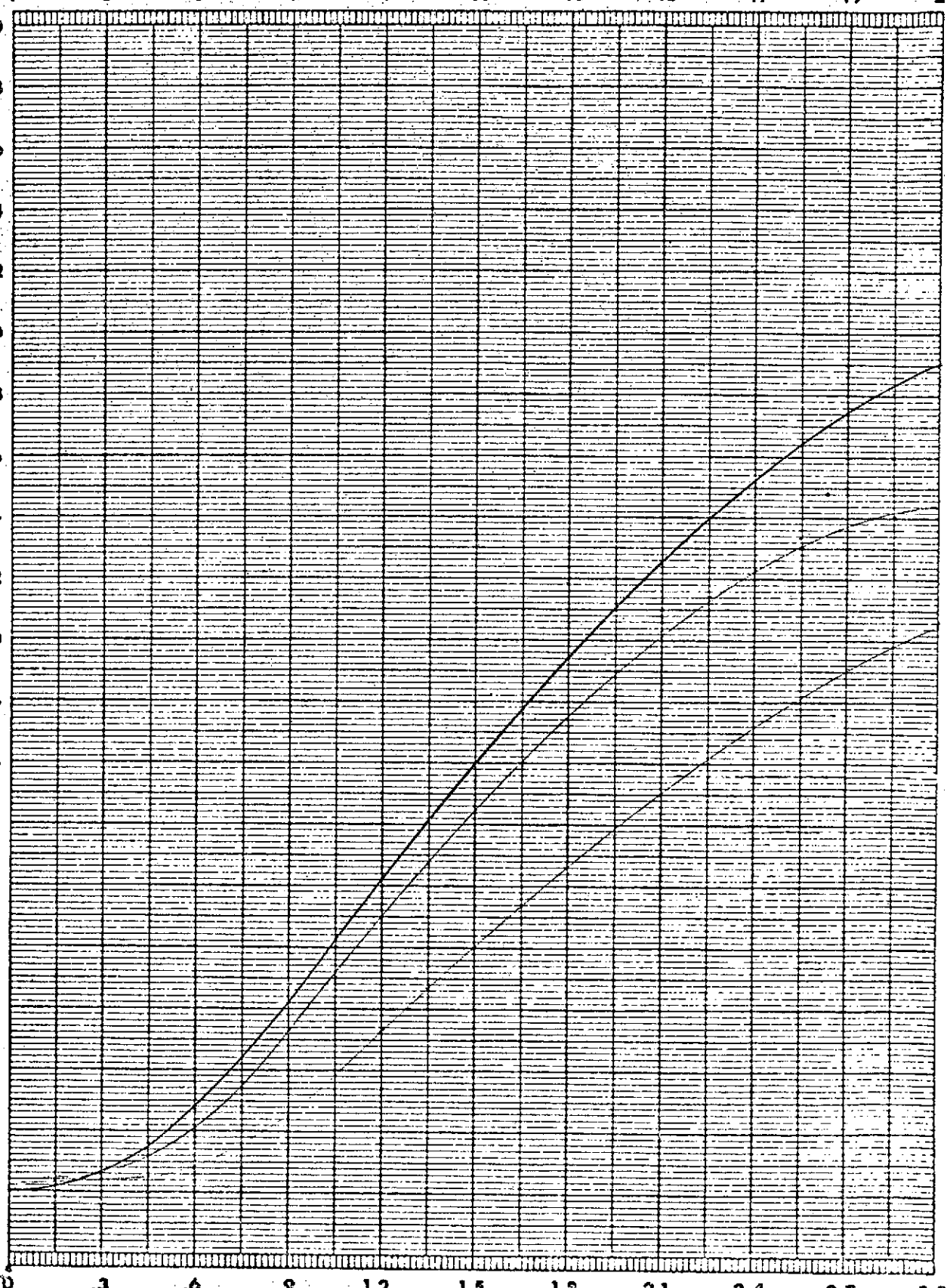

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-10

T71-21

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54

DATE June 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 205 / D-MAX
TIME SEC.	SPEED TANKS 6 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

KB,

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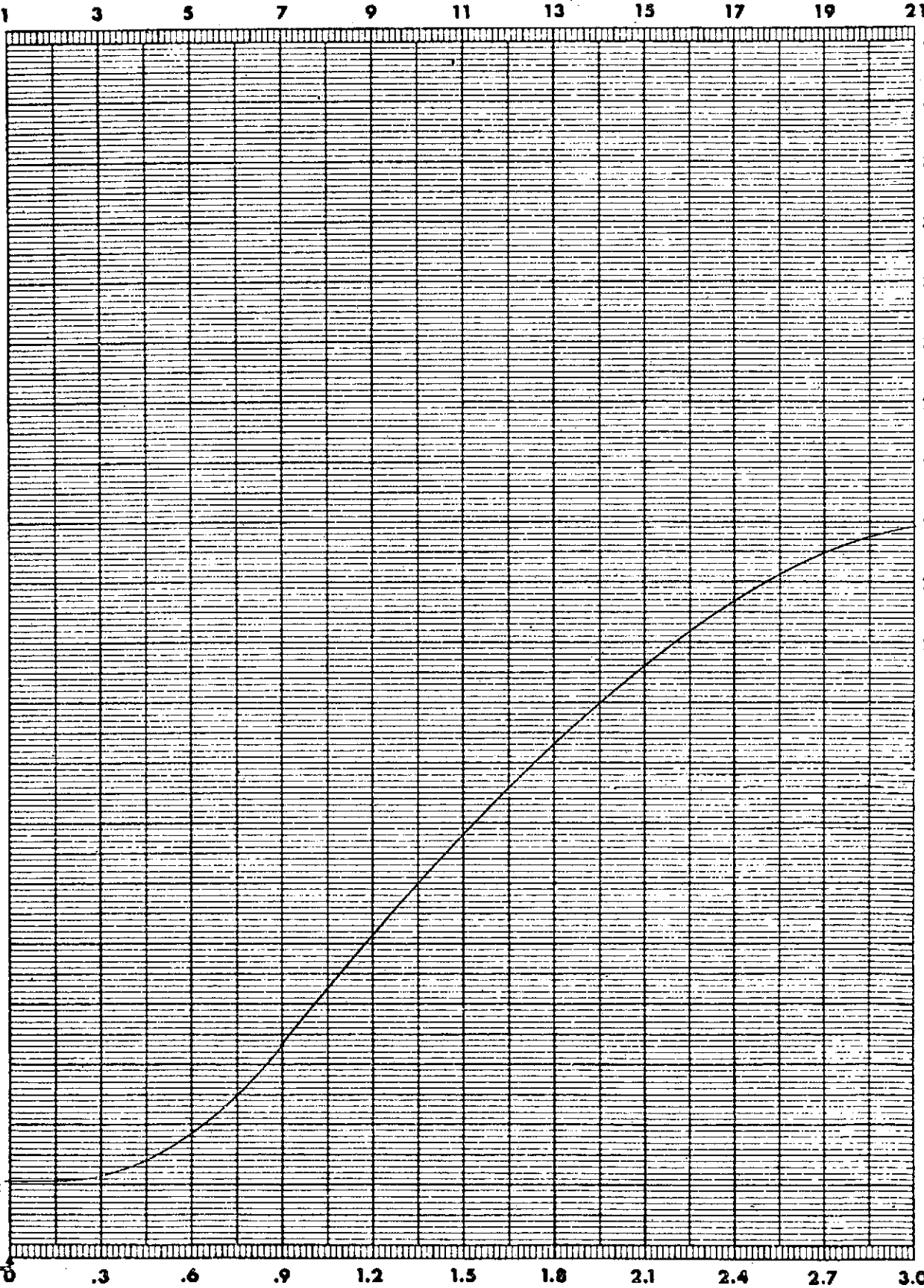

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T71-21

DATE 1 June 72 CONTROL # 0-22 1000 Preh. 96° TASK ET-59 PREPARED BY

FILM 2445 EMULSION # MFG E.K. Co. EXPIRATION DATE

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 6 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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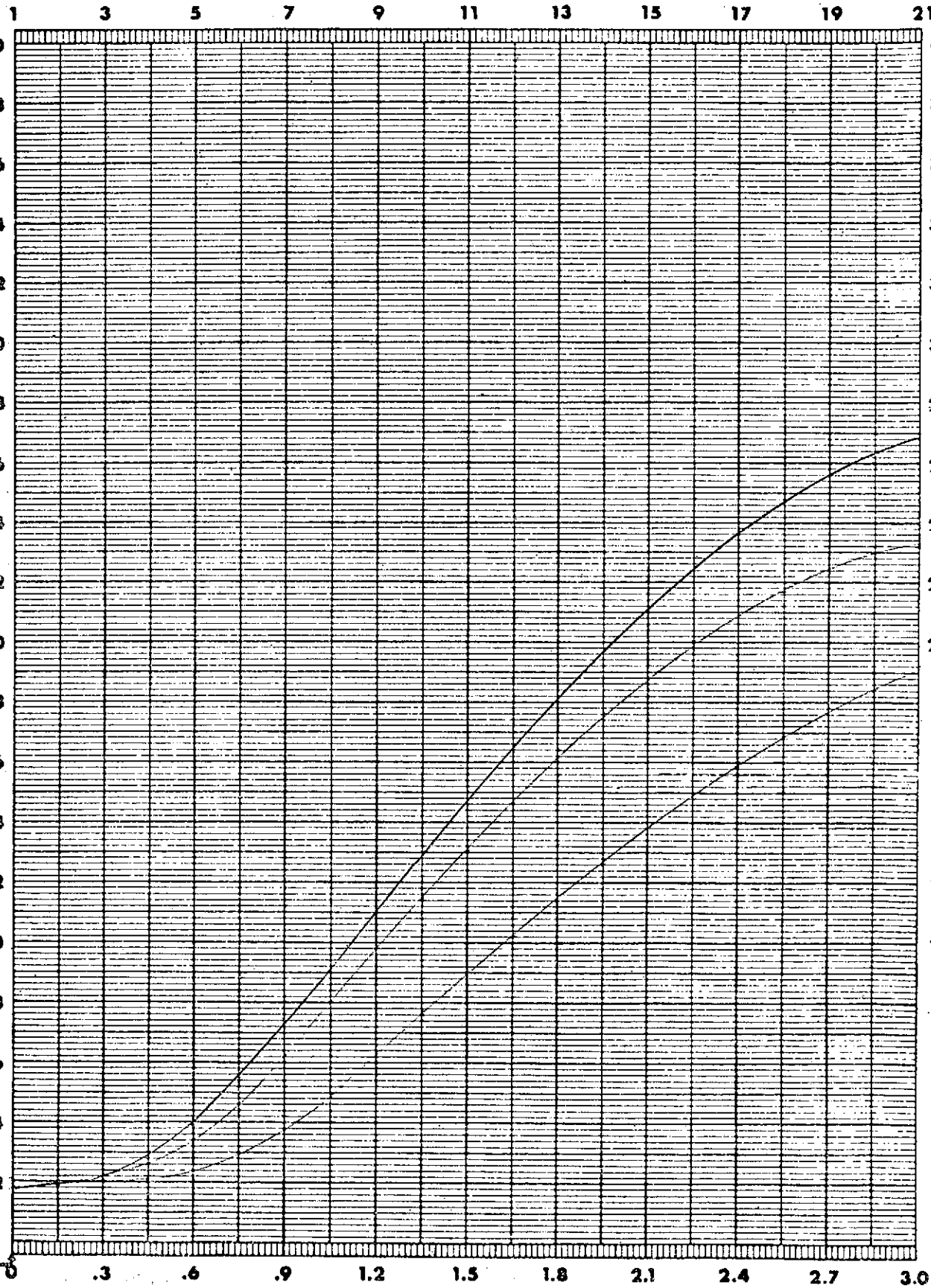

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

-10

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33

DATE June 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY Ed.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TPP

_____ KB,

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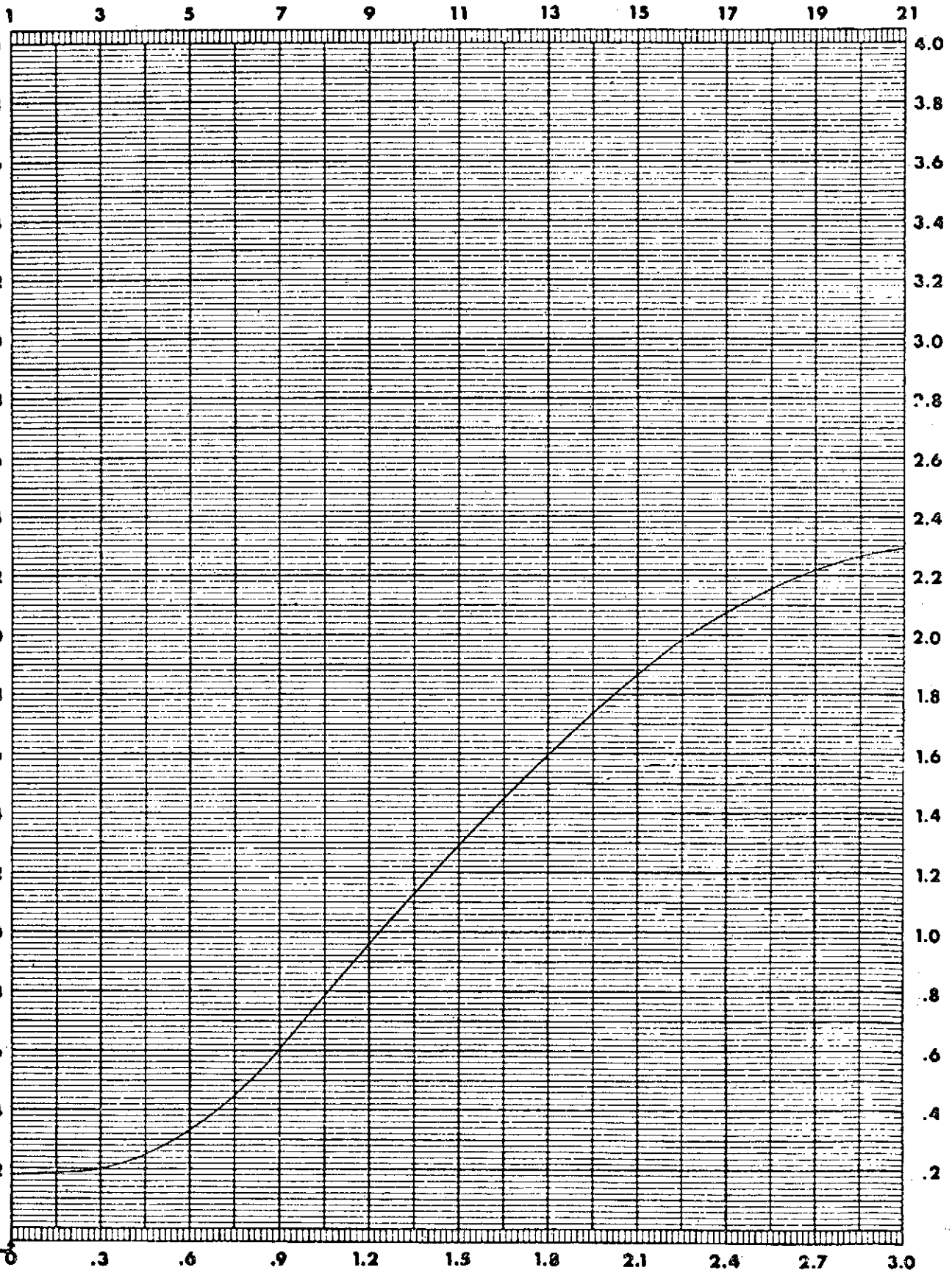

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

-10

T71-21

33

DATE June 72 CONTROL # 0-22 100° Preh. 96° TASK HT-59 PREPARED BY E. H.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 6.4 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TPP

KB_r

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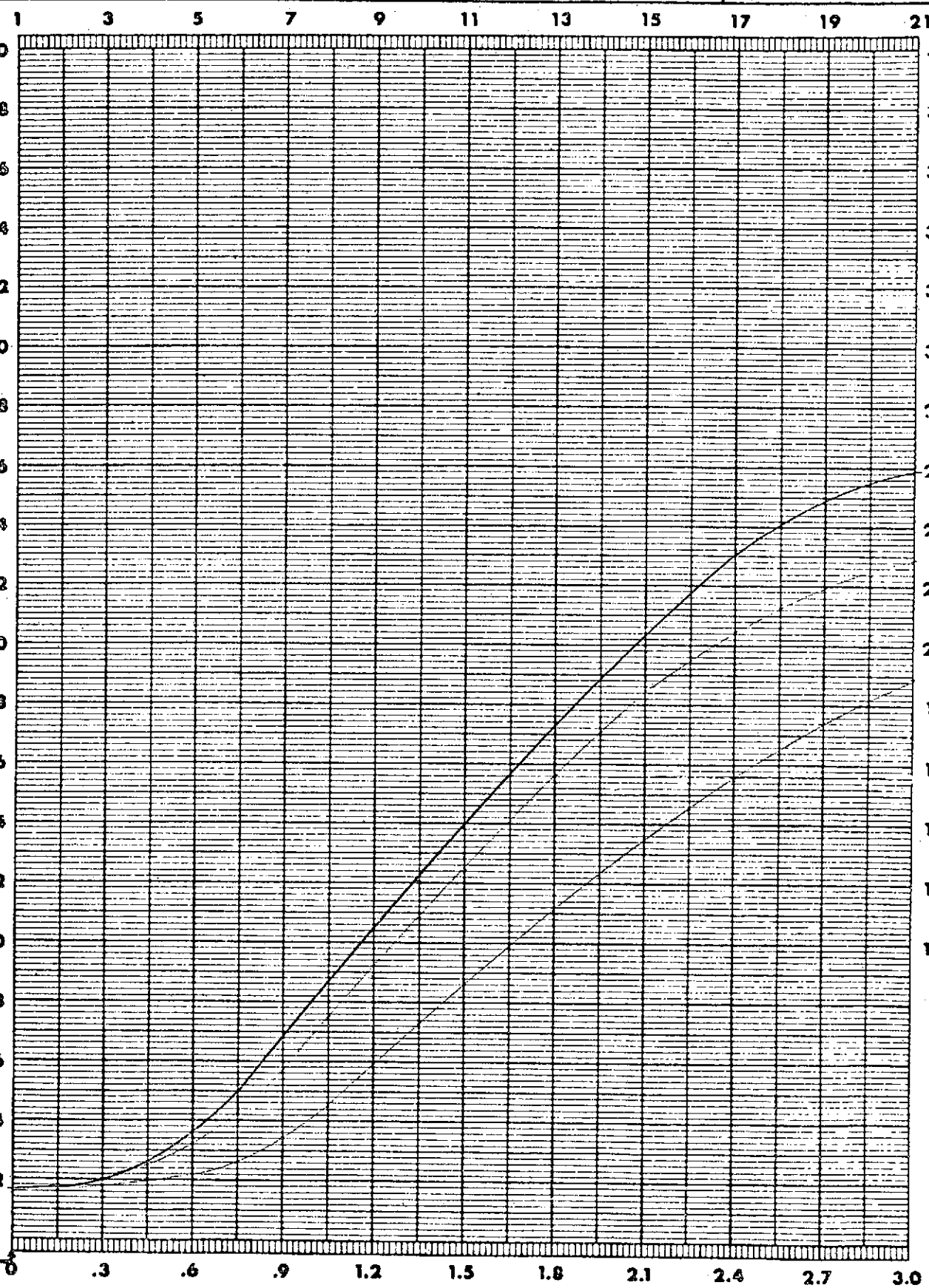

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ABSOLUTE LOG E AT R.L.E. = 0

-10

T71-21

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32

DATE June 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

DENSITOMETRY	
SPEED ( )	_____
D-MAX	_____
GAMMA	_____
BASE + FOG	_____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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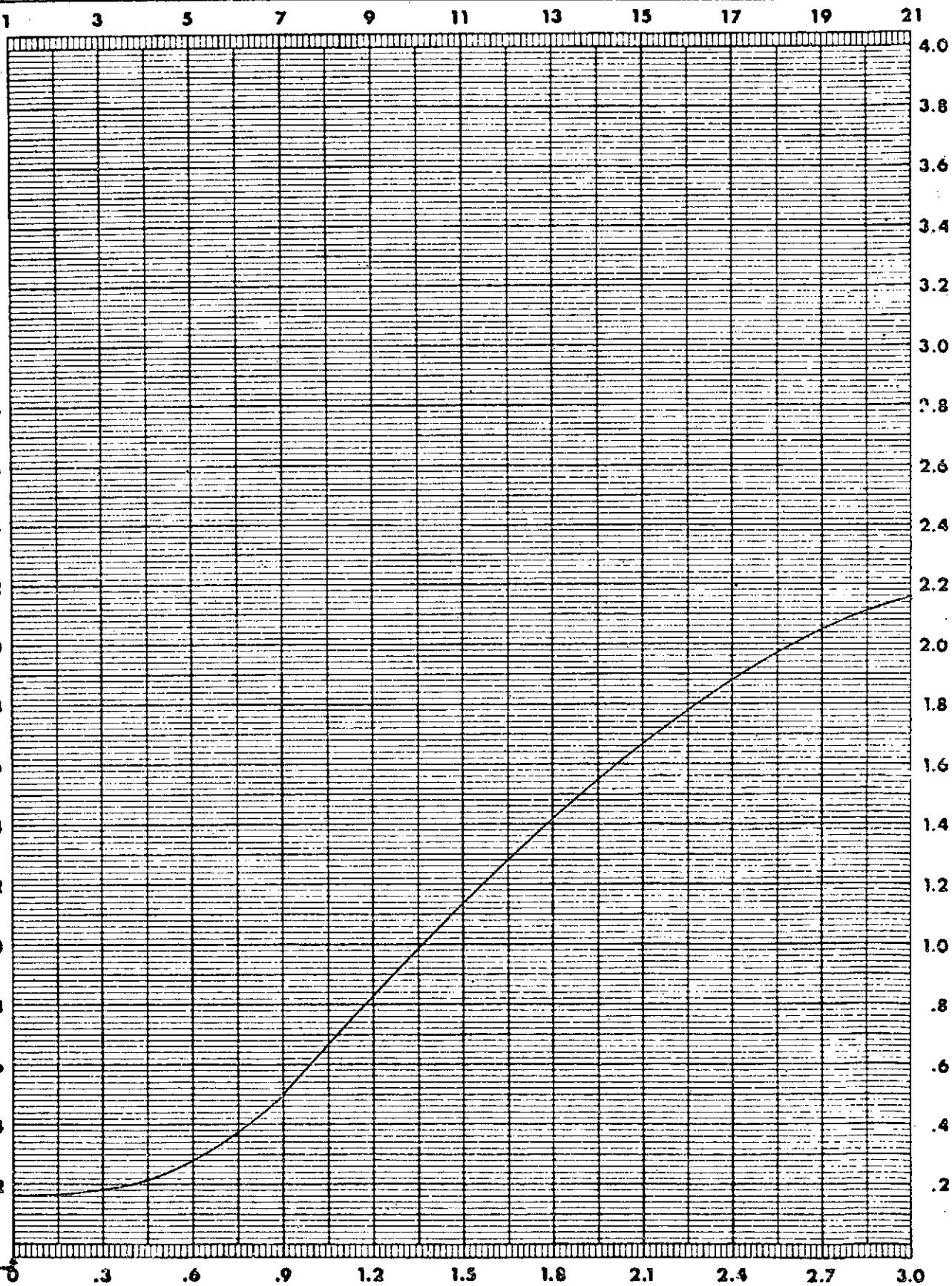

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

32

DATE JUNE 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 3350 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TFP

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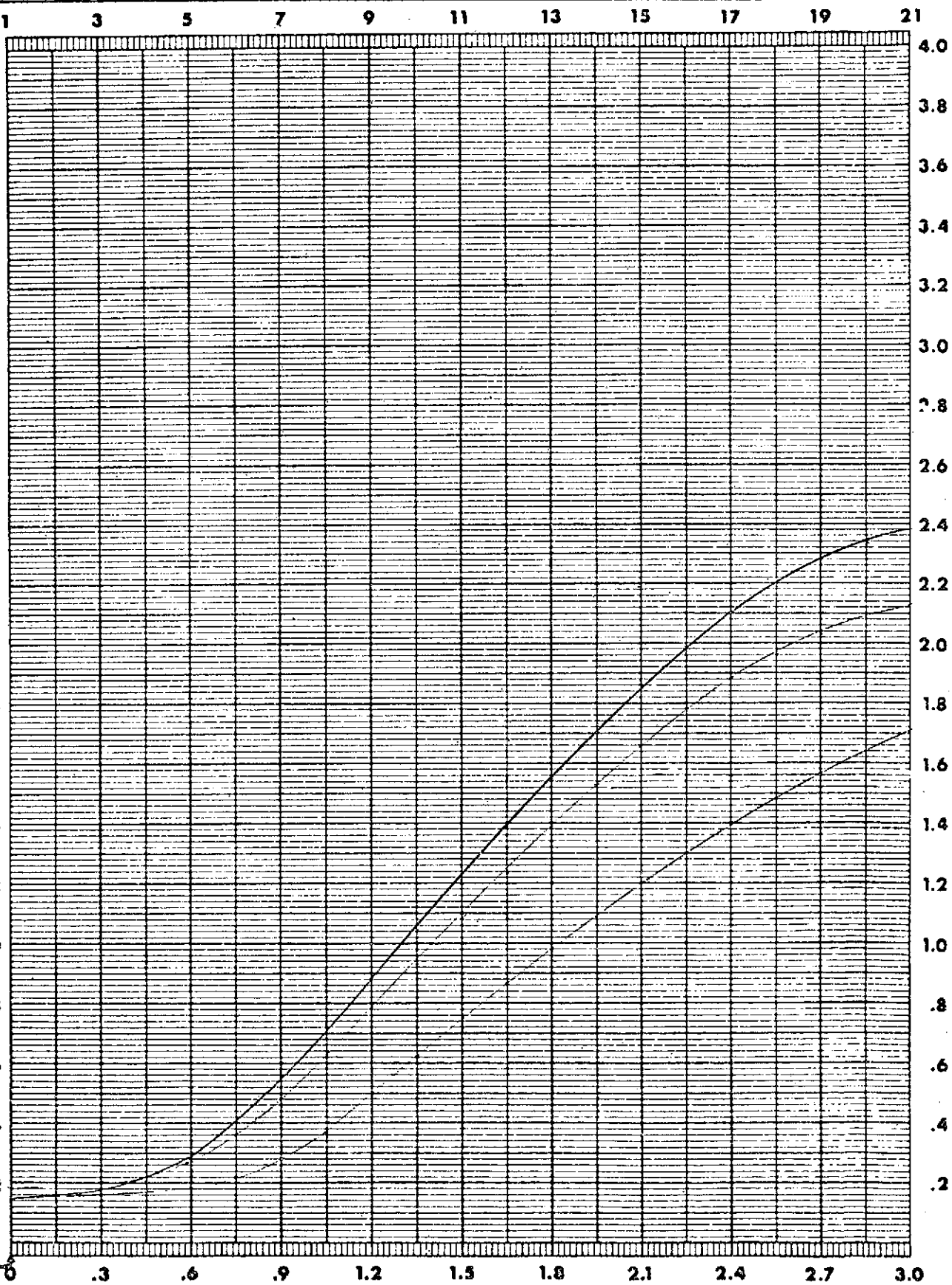

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ABSOLUTE LOG E AT R.L.E. = 0 −10

T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 O - 457-477

C-22 100°

DATE June 72 CONTROL # Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM / GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual / BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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_____ TA

_____ TFP

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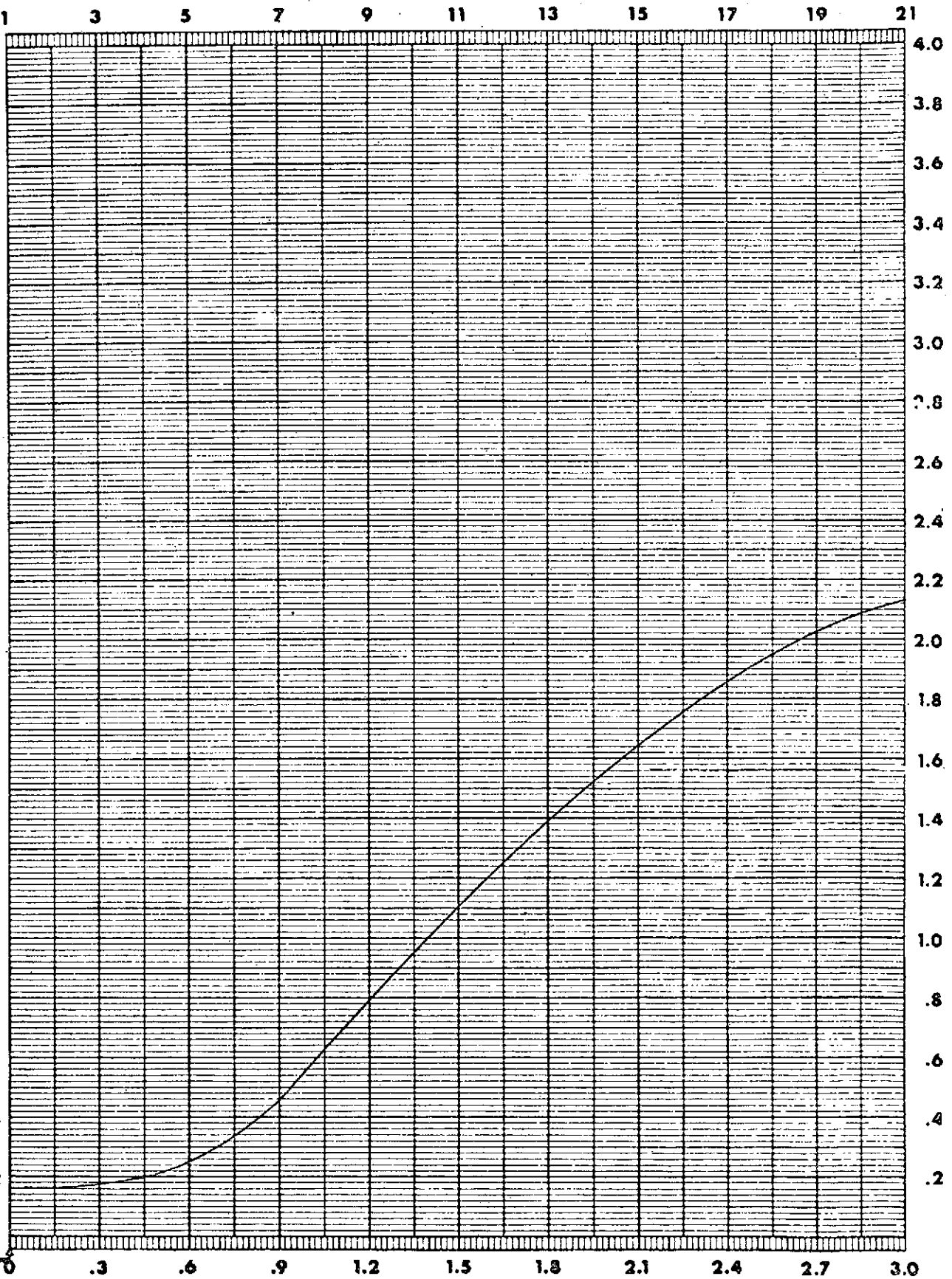

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ABSOLUTE LOG E AT R.L.E. = 0 / -10

T71-21

.31

DATE June 72 CONTROL # C-22 100° Preh. 96° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 7.5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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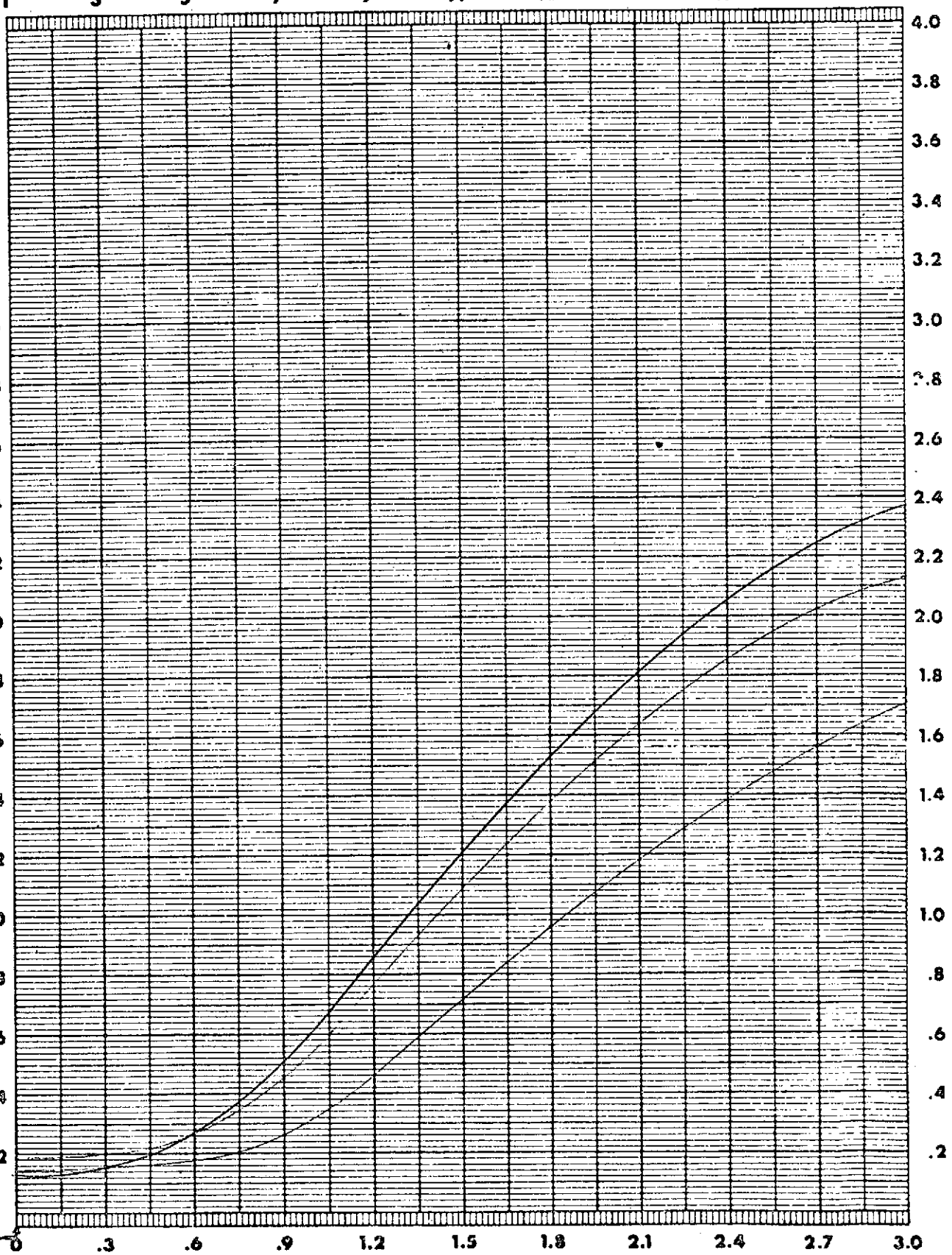

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

25

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME ___ SEC.	SPEED ___ TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F ___ TIME ___	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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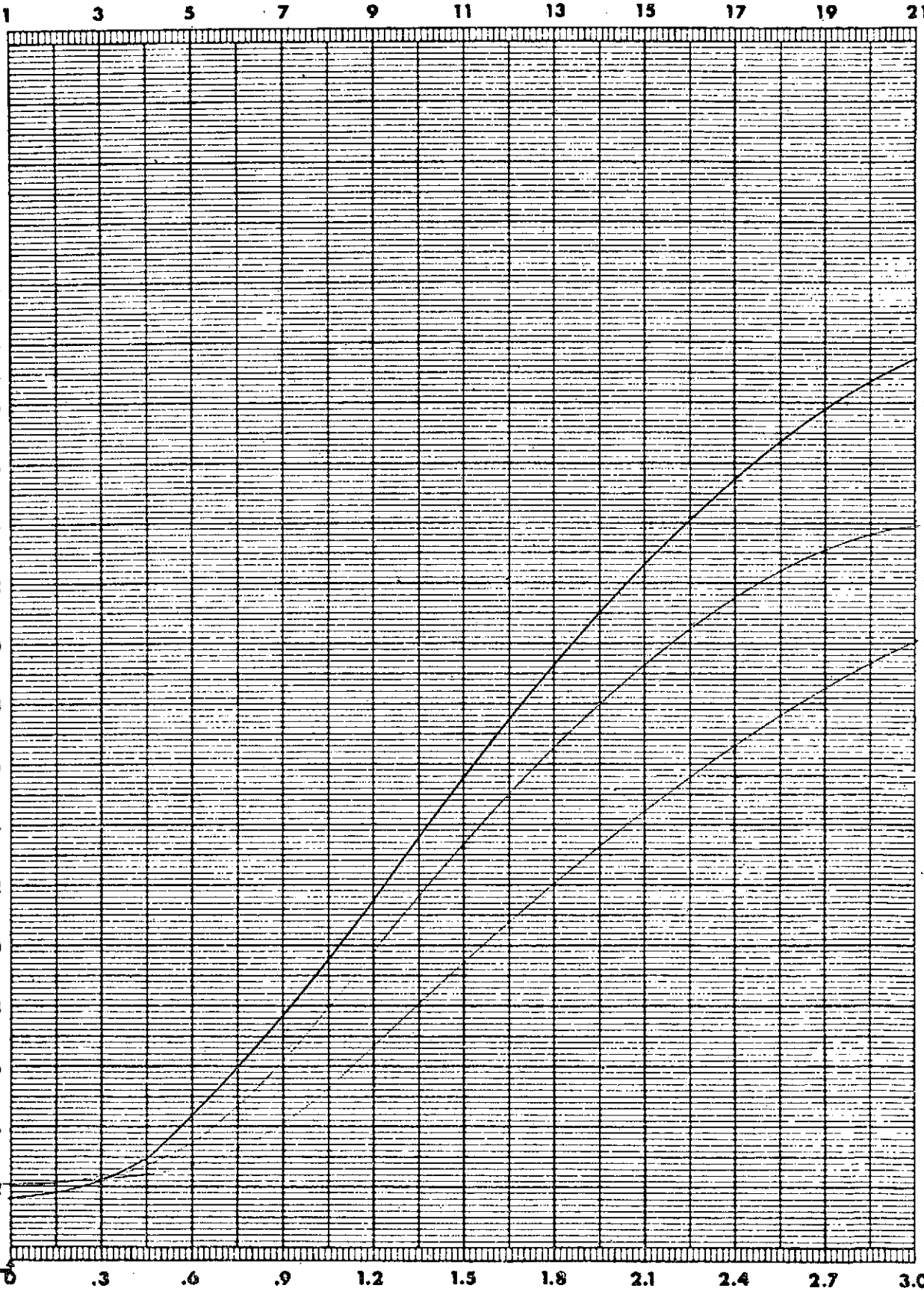

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Kacbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual / BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

_____ KB_r

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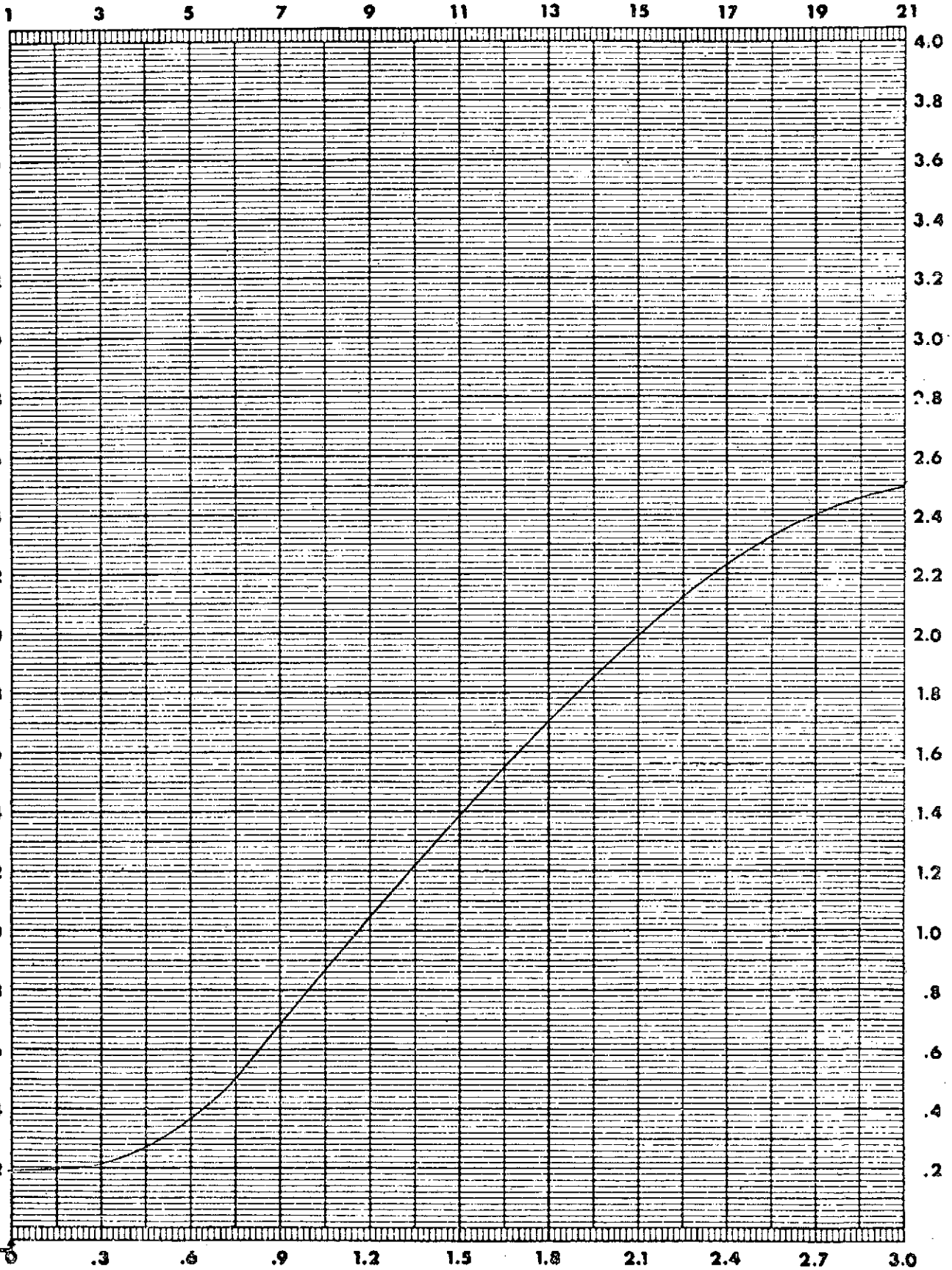

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ABSOLUTE LOG E AT R.L.E. 0 -10

T71-21

26

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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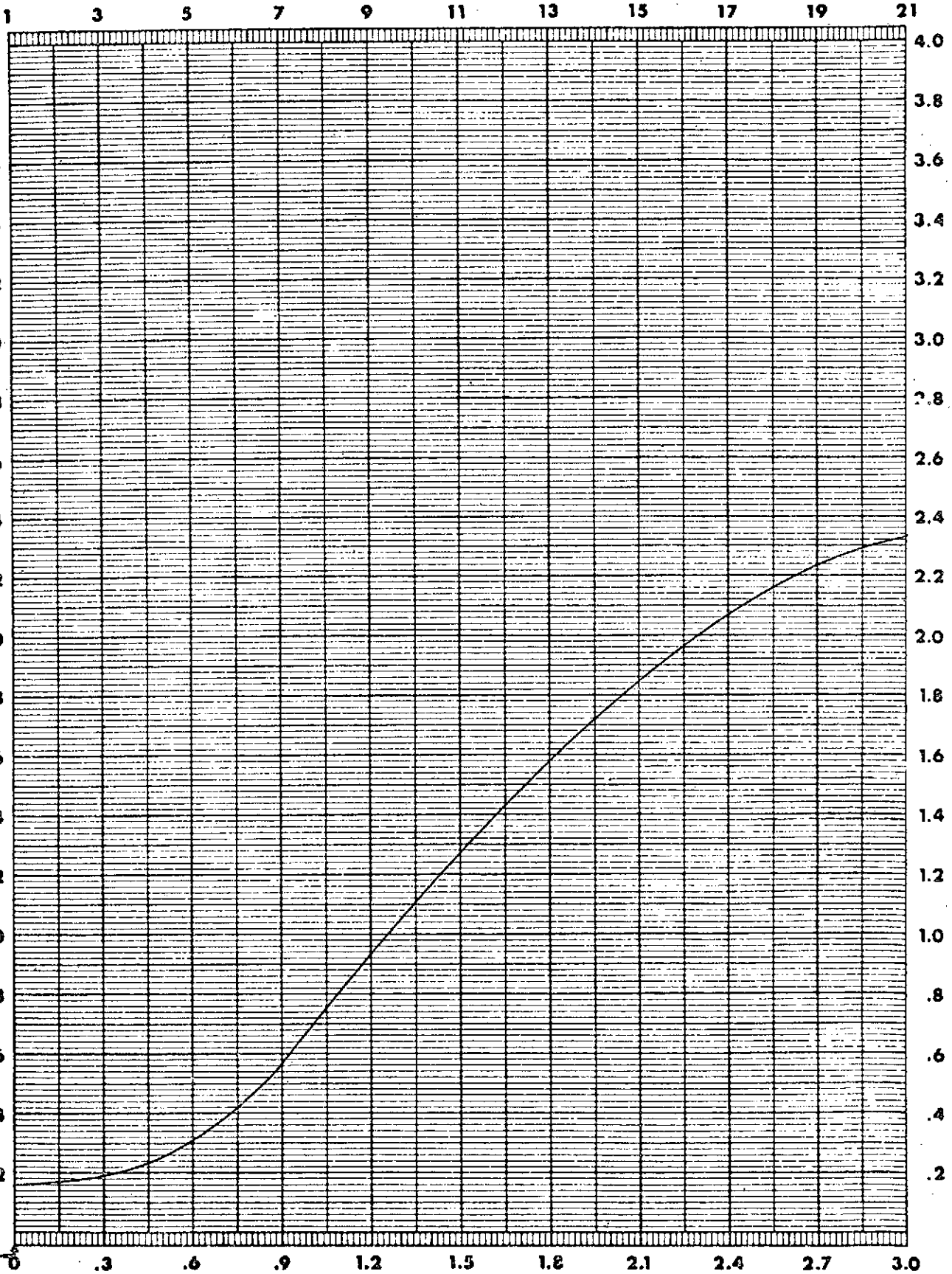

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

26

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. H.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

	SPEED ( )
	D-MAX
	GAMMA
	BASE + FOG

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

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KBr _____

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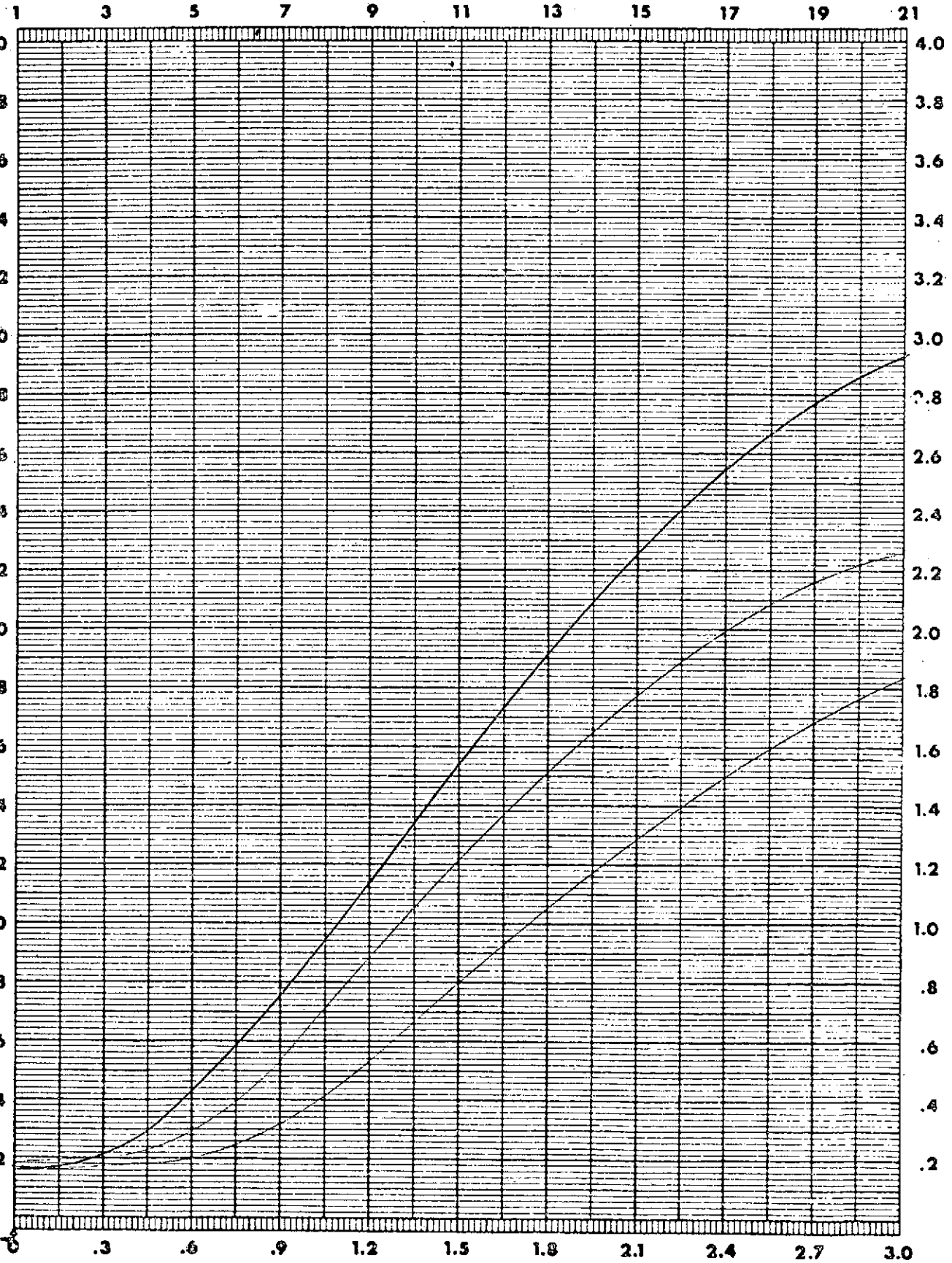

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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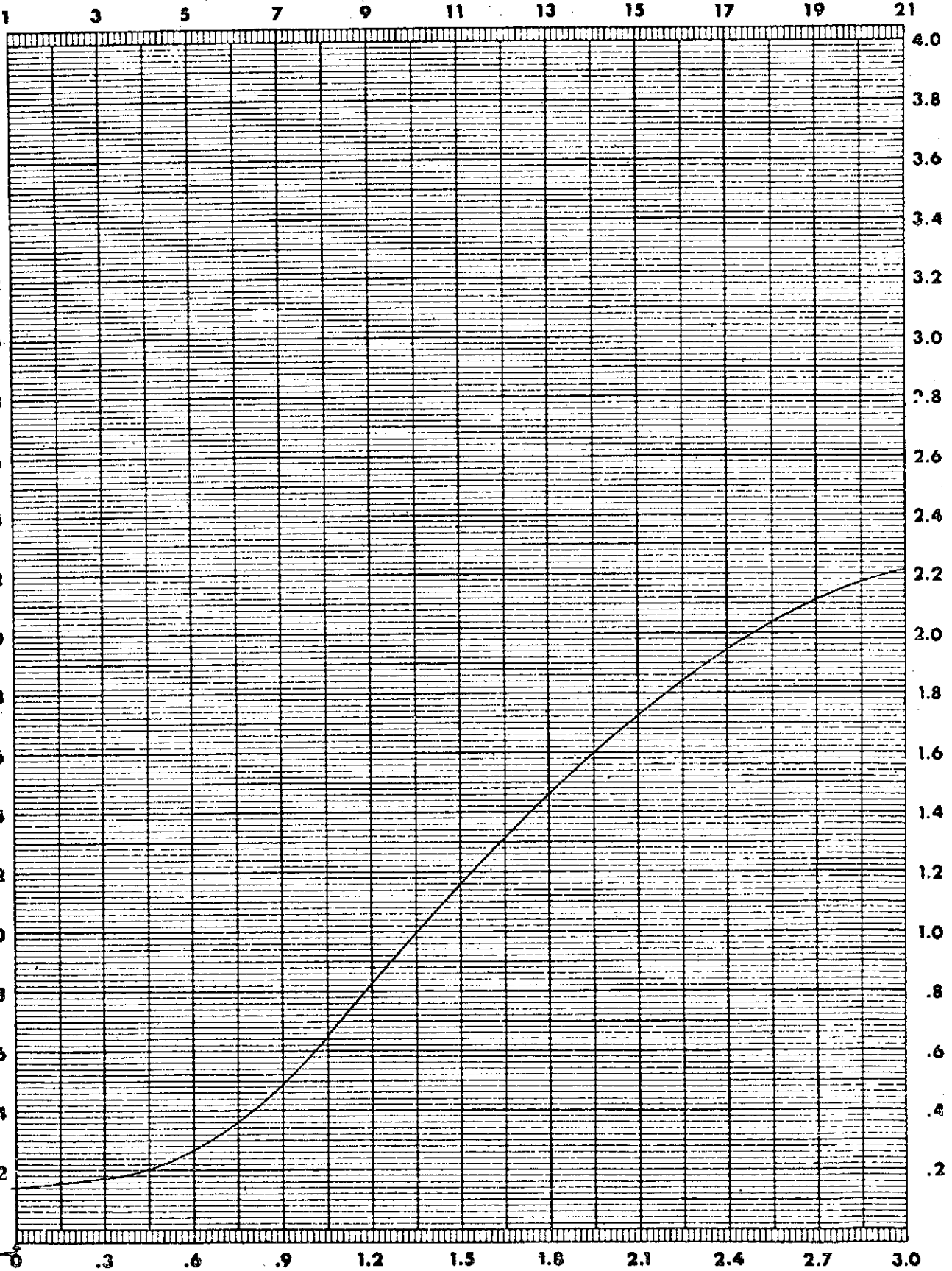

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

27

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TCP

KB_r

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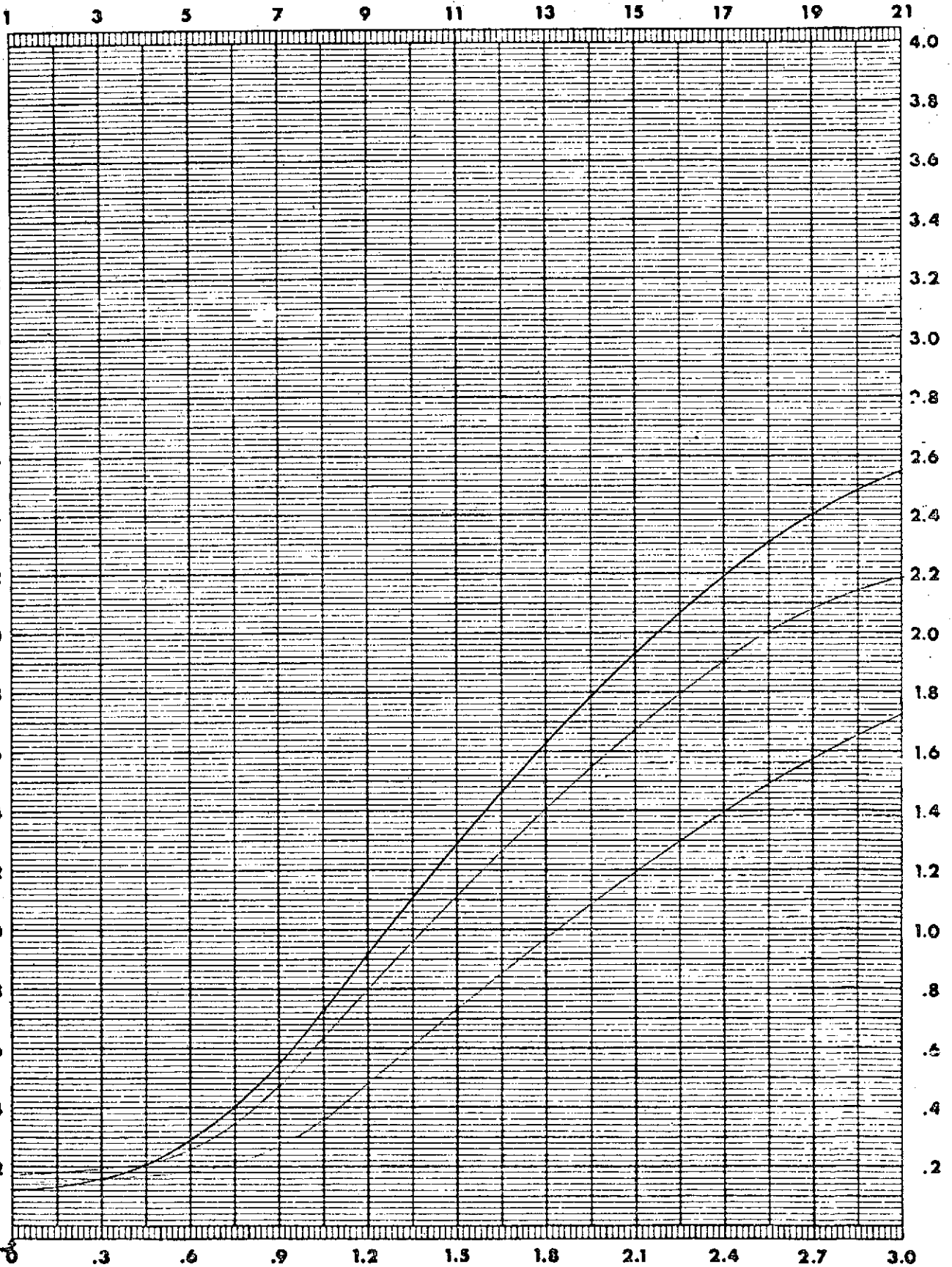

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ABSOLUTE LOG E AT R.L.E. 0 / -10

T71-21

48

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E.A.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

_____ KBr

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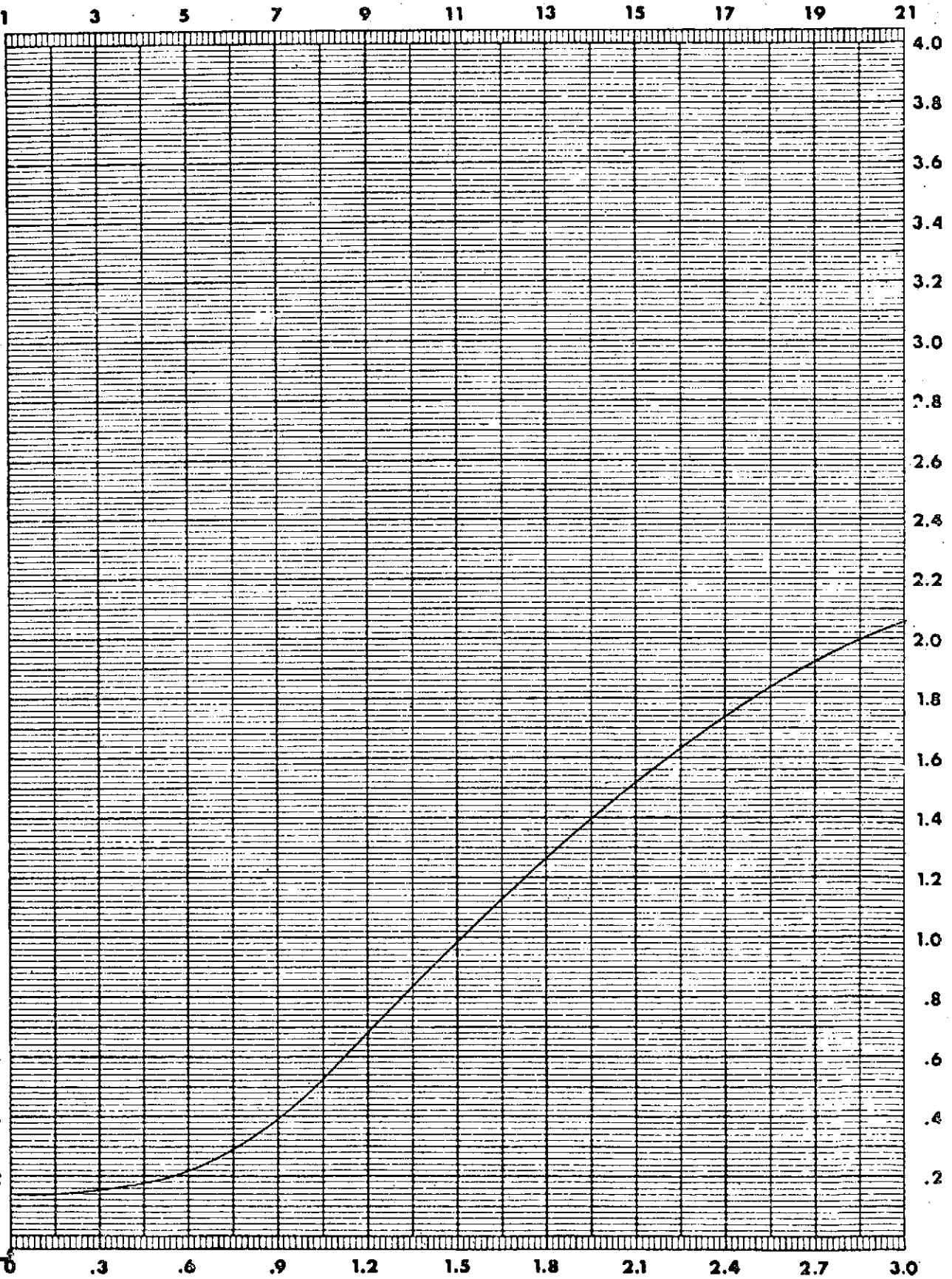

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ABSOLUTE LOG E AT R.L.E. = 0

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28

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM	GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M	BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ T-P

_____ KB_r

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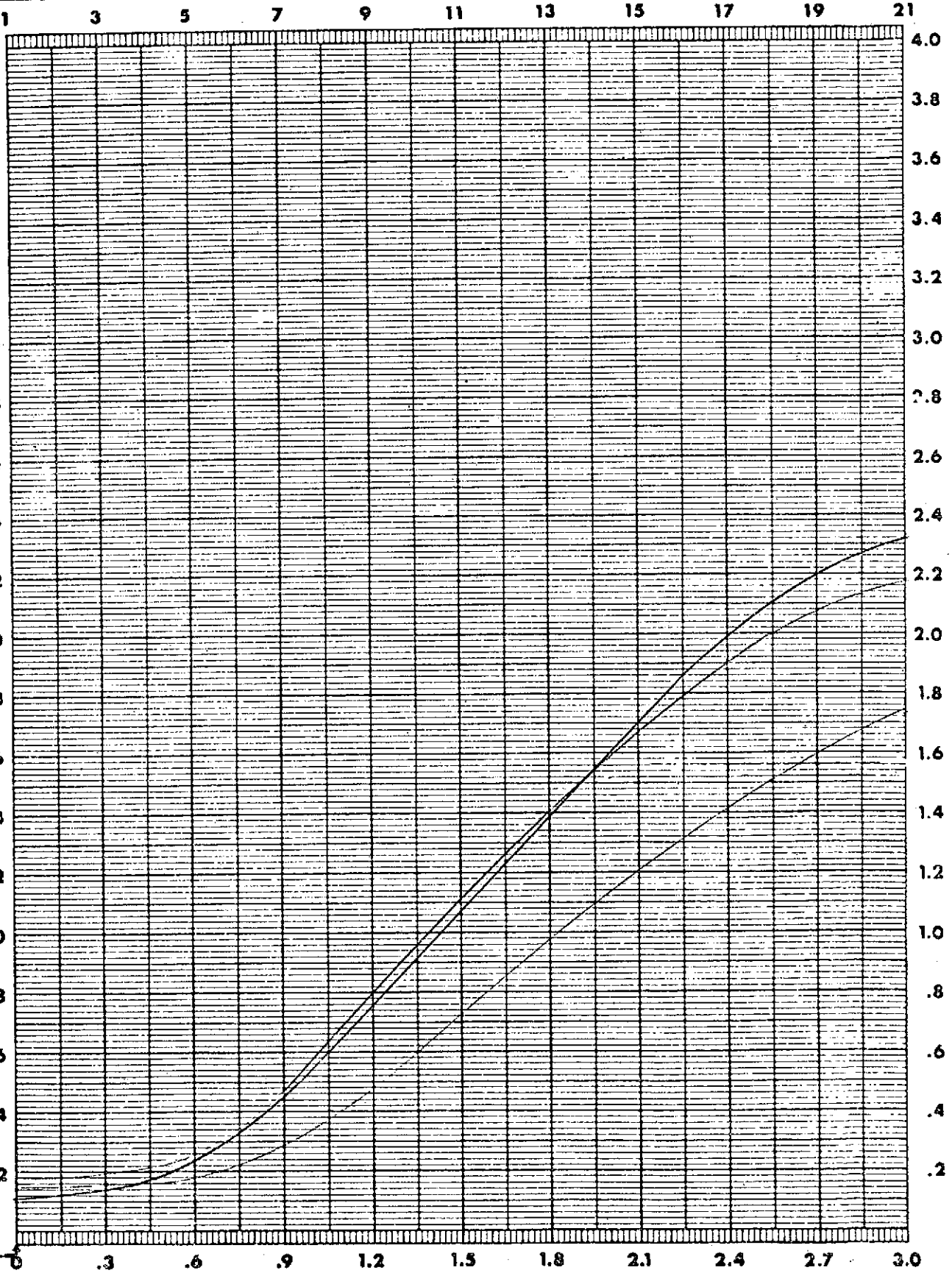

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

29

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. A.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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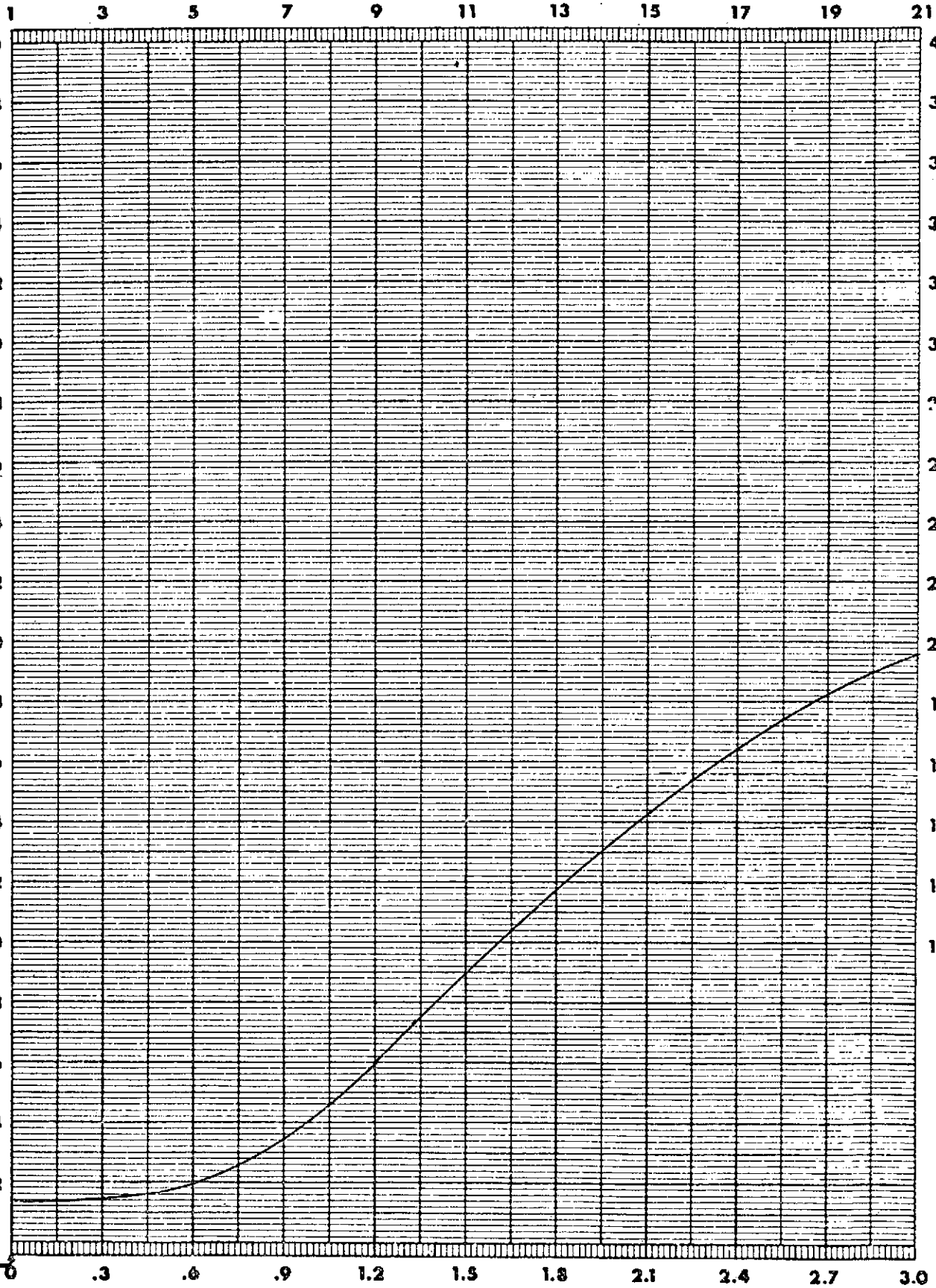

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. L.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203	D-MAX
TIME SEC.	SPEED TANKS 7 FPM	APERTURE SIZE 4 MM	GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M	BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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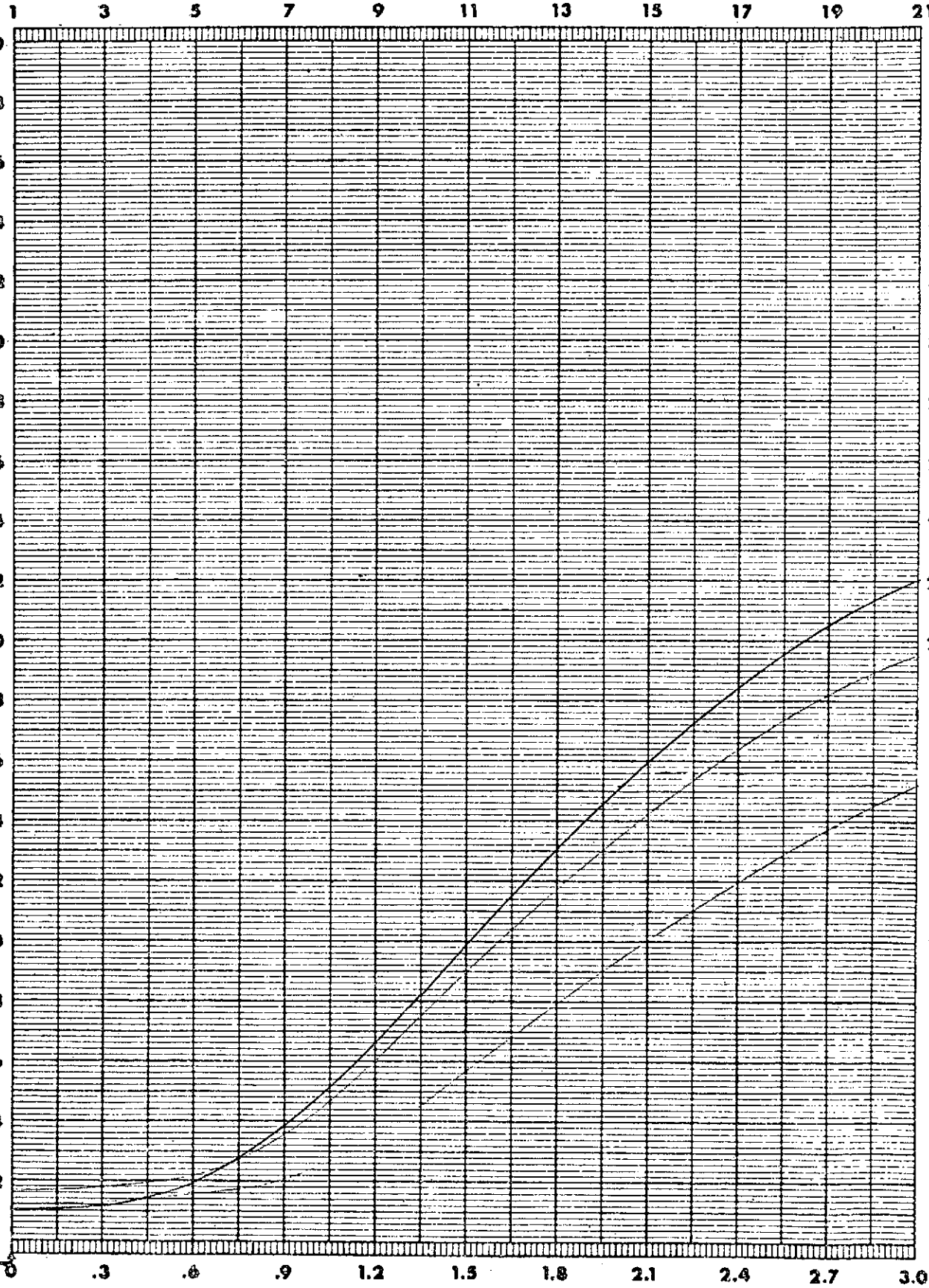

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK PT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KBr _____

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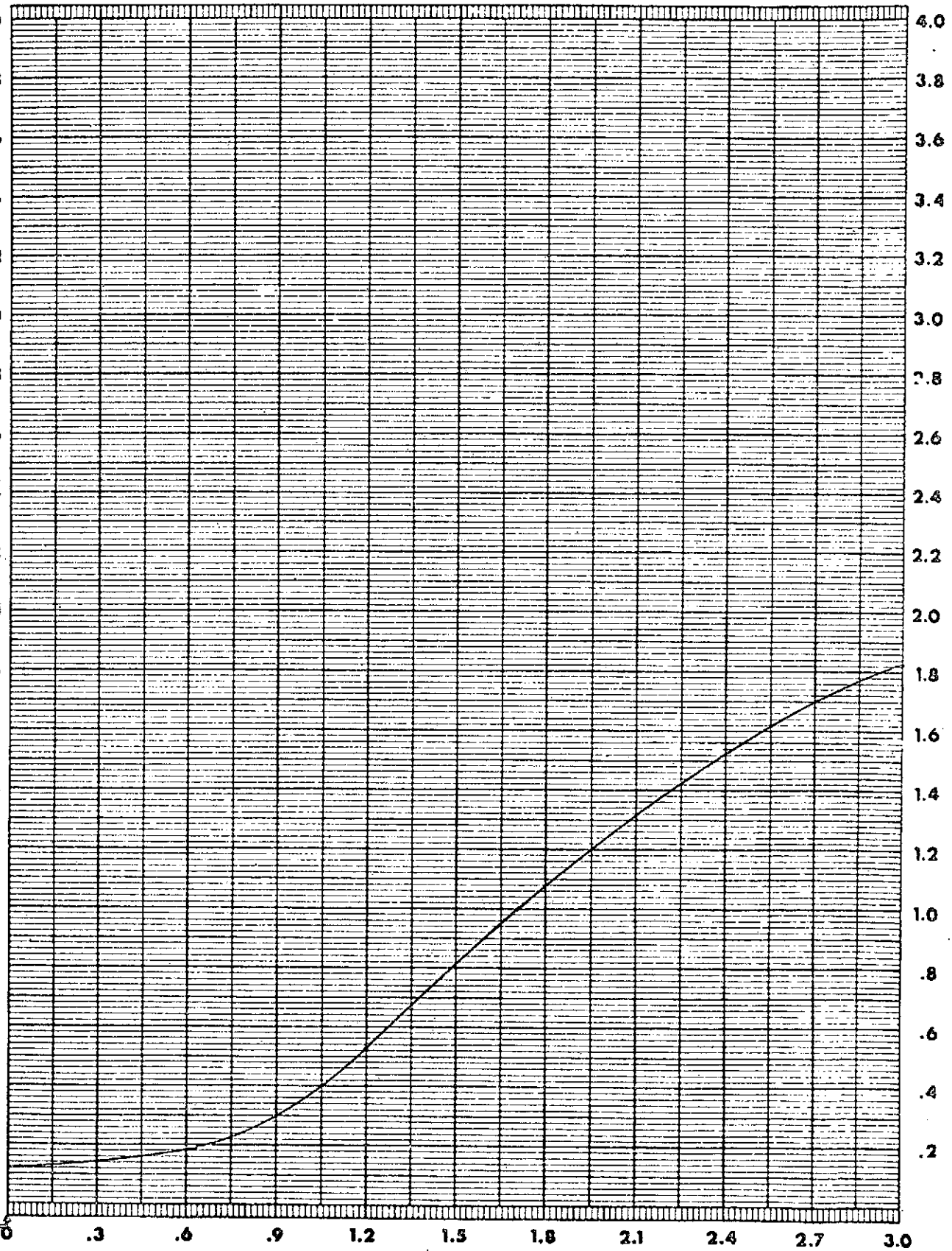

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ABSOLUTE LOG E AT R.L.E. = 0 -10

T71-21

DATE June 72 CONTROL # C-22 96° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 7.5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TPP

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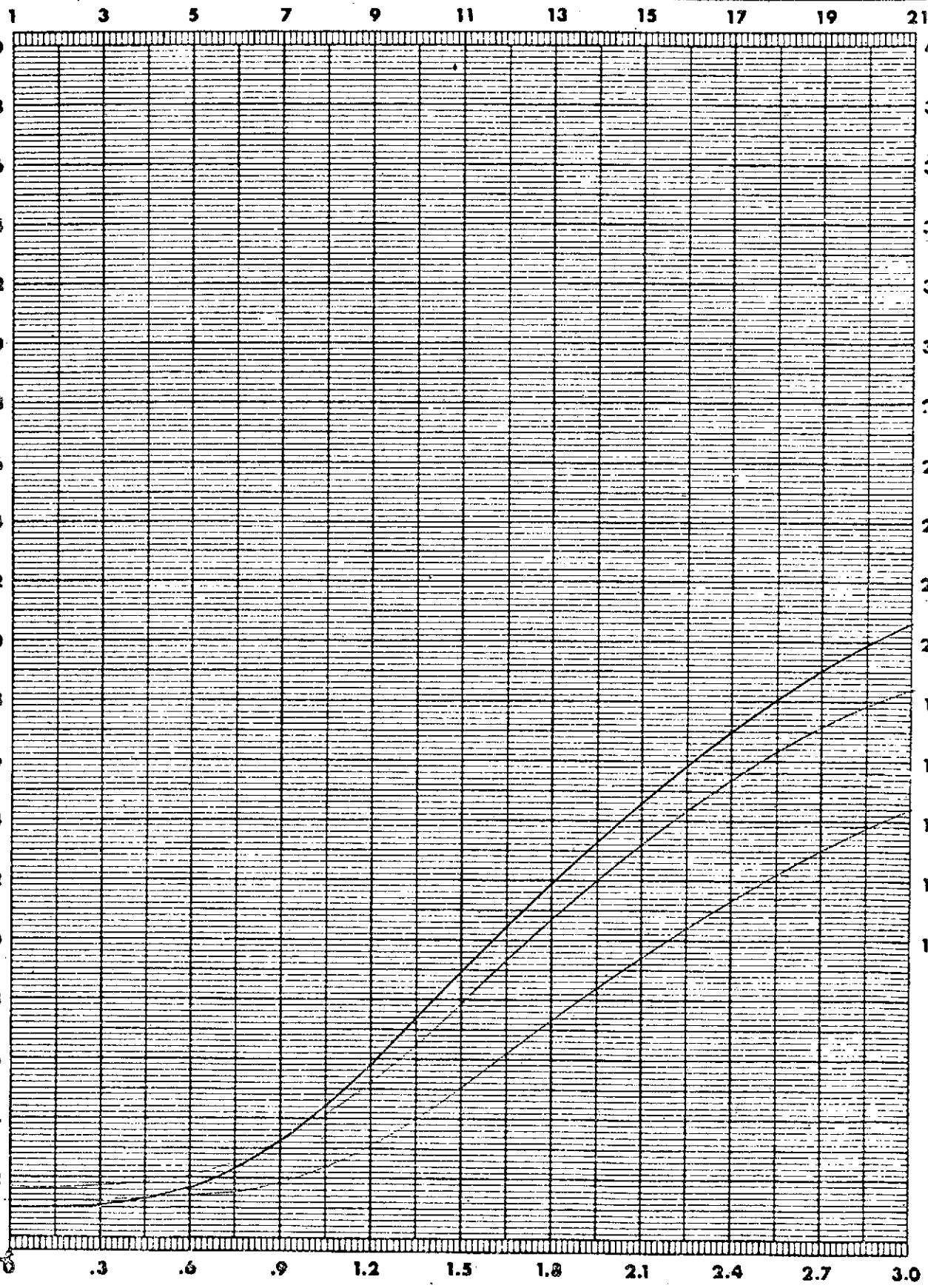

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

24

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E. K.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM	GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual	BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

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TRP _____

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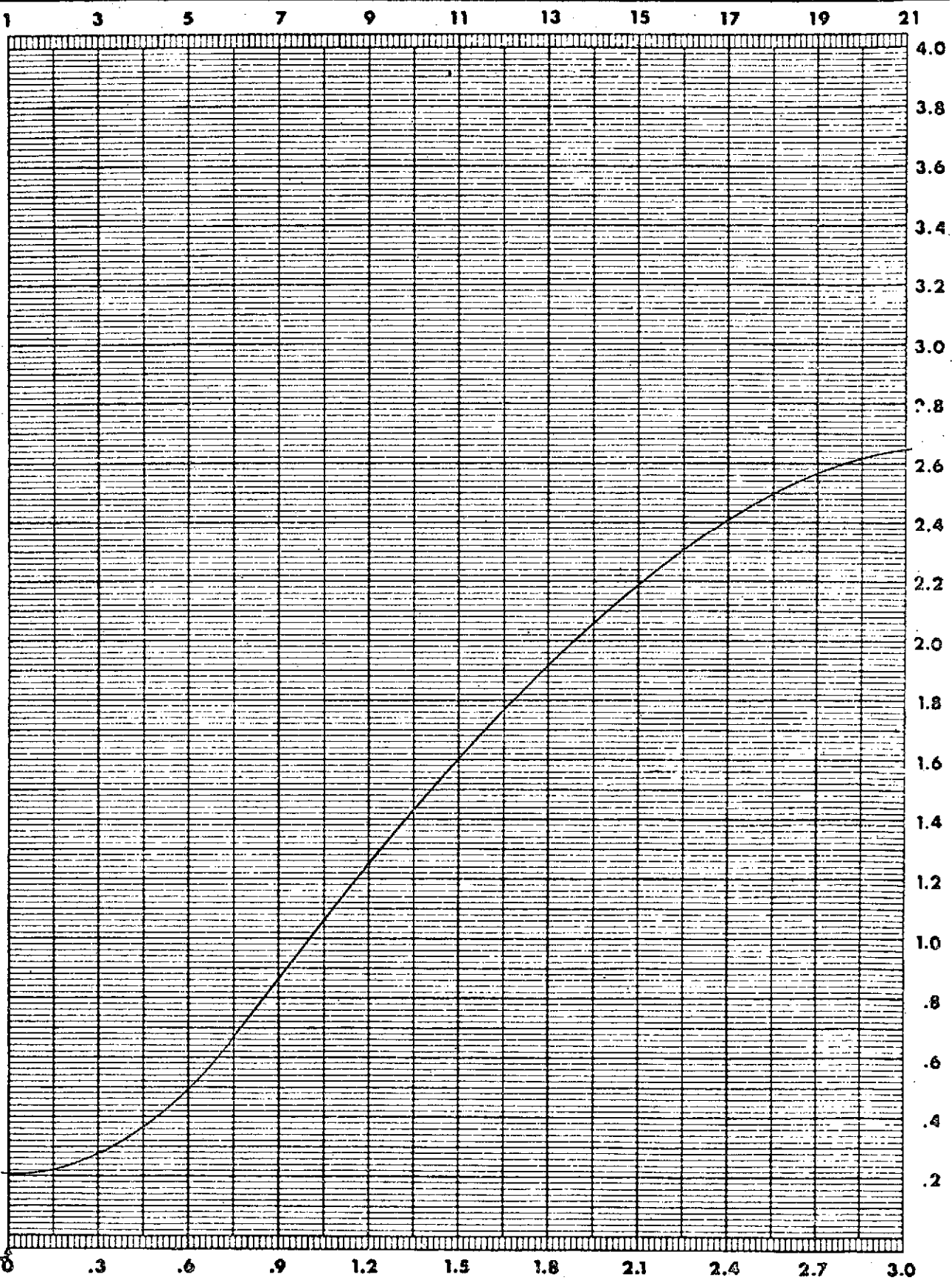

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ABSOLUTE LOG E AT R.L.E. = 0 -10

T71-21

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DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

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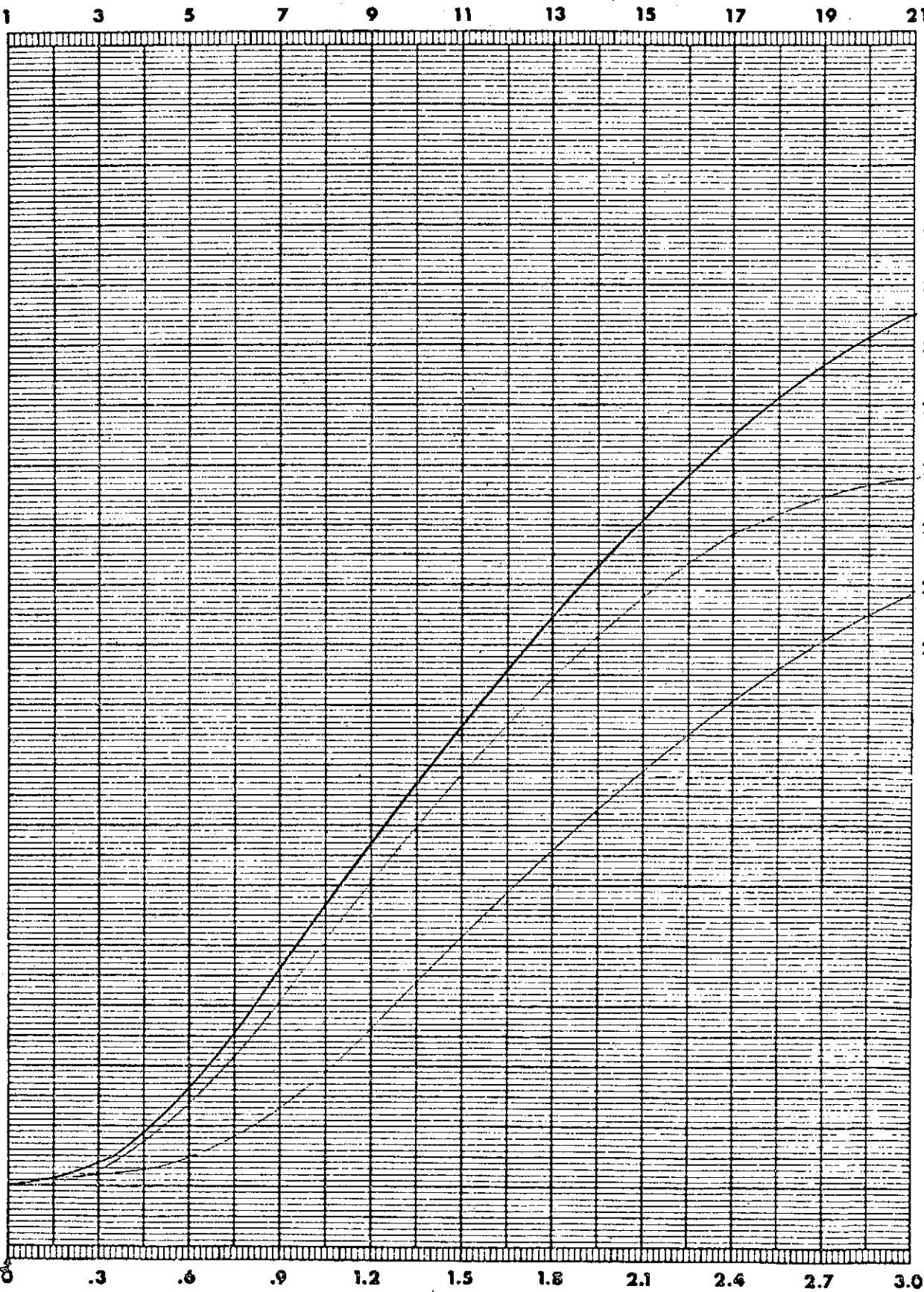

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

23

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E.K.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM	GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual	BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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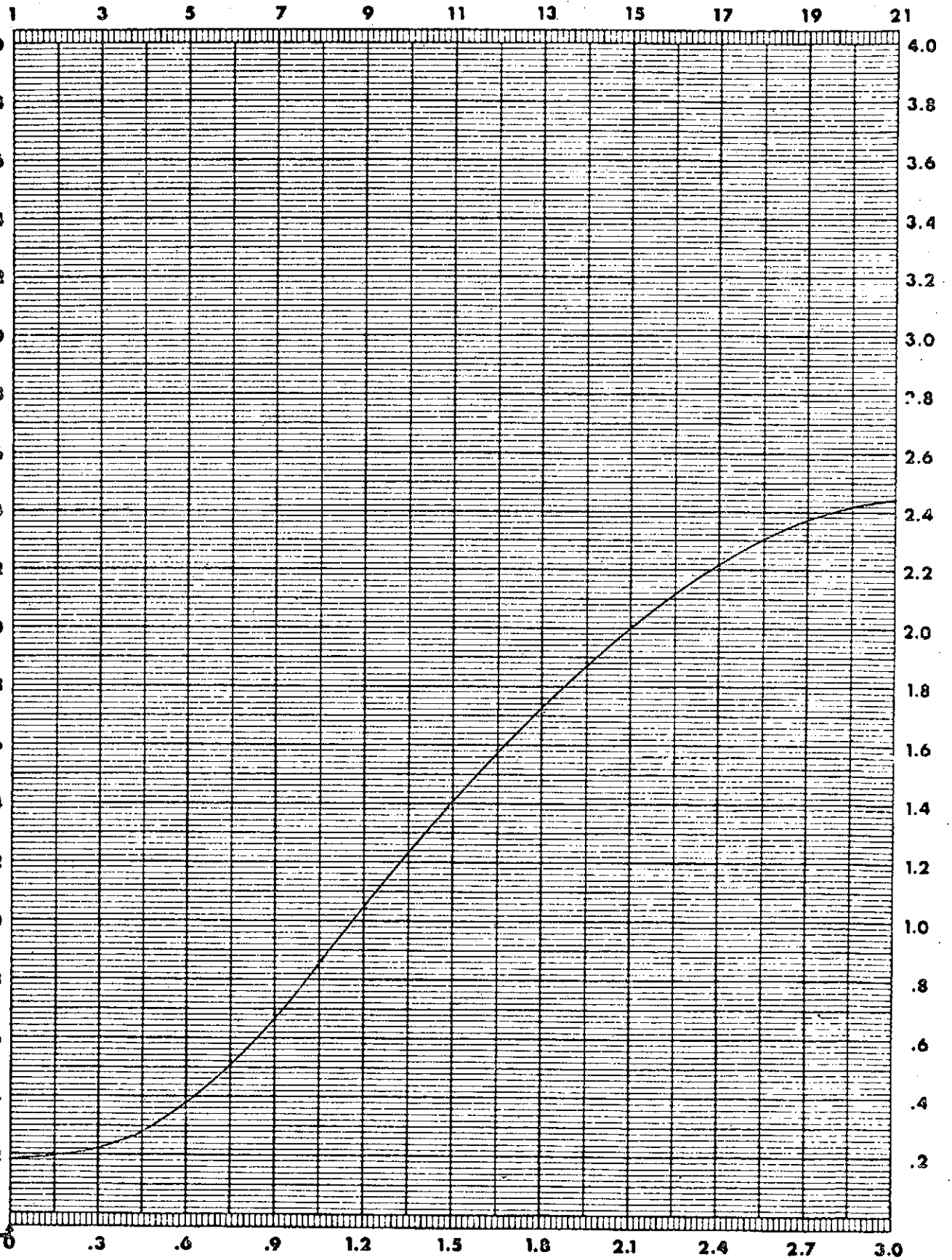

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ABSOLUTE LOG E AT R.L.E. = 0 −10

T71-21

U.S. GOVERNMENT PRINTING OFFICE

23

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5.5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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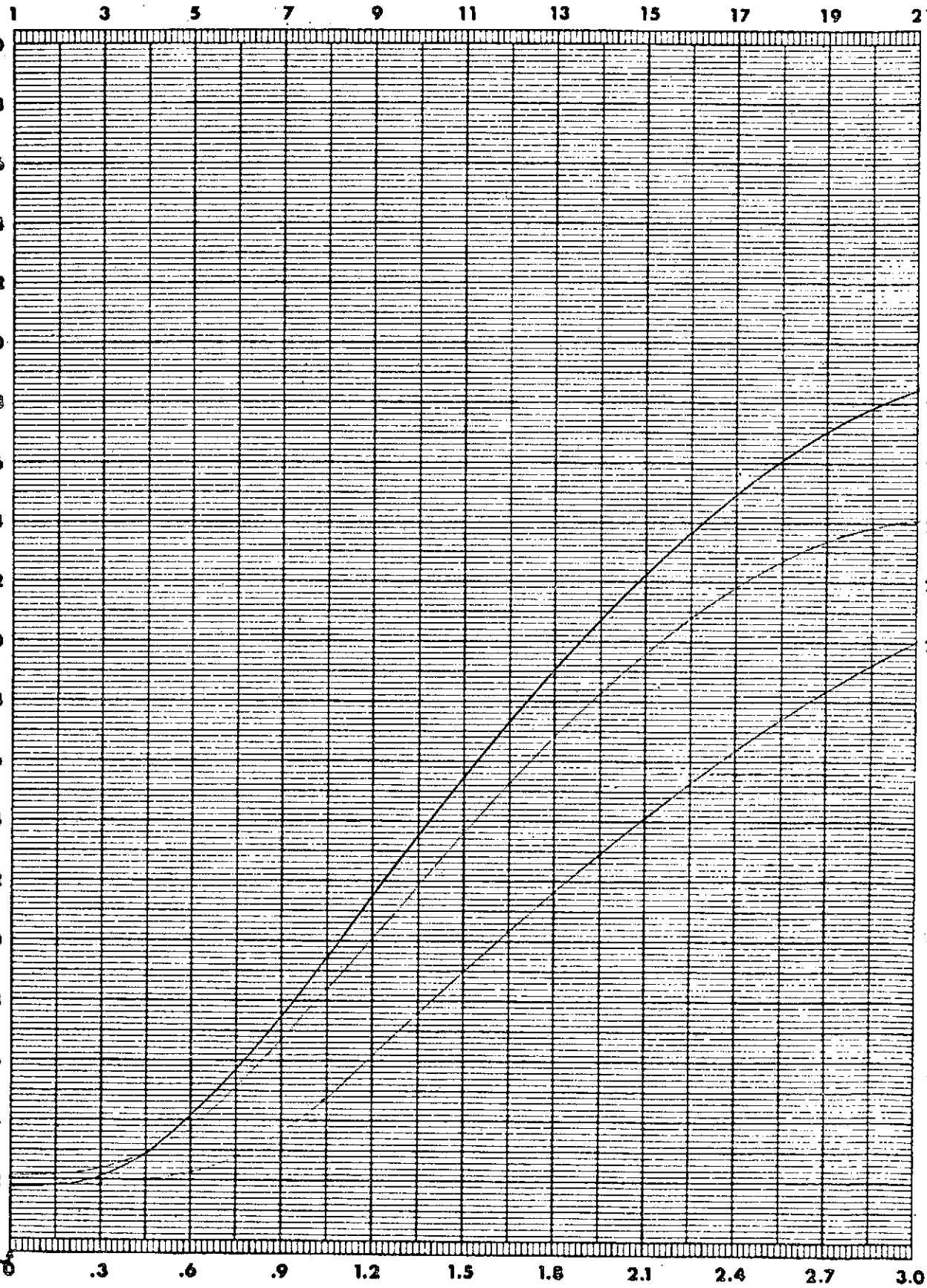

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ABSOLUTE LOG E AT R.L.E. 0

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T71-21

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972—779-257/77

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

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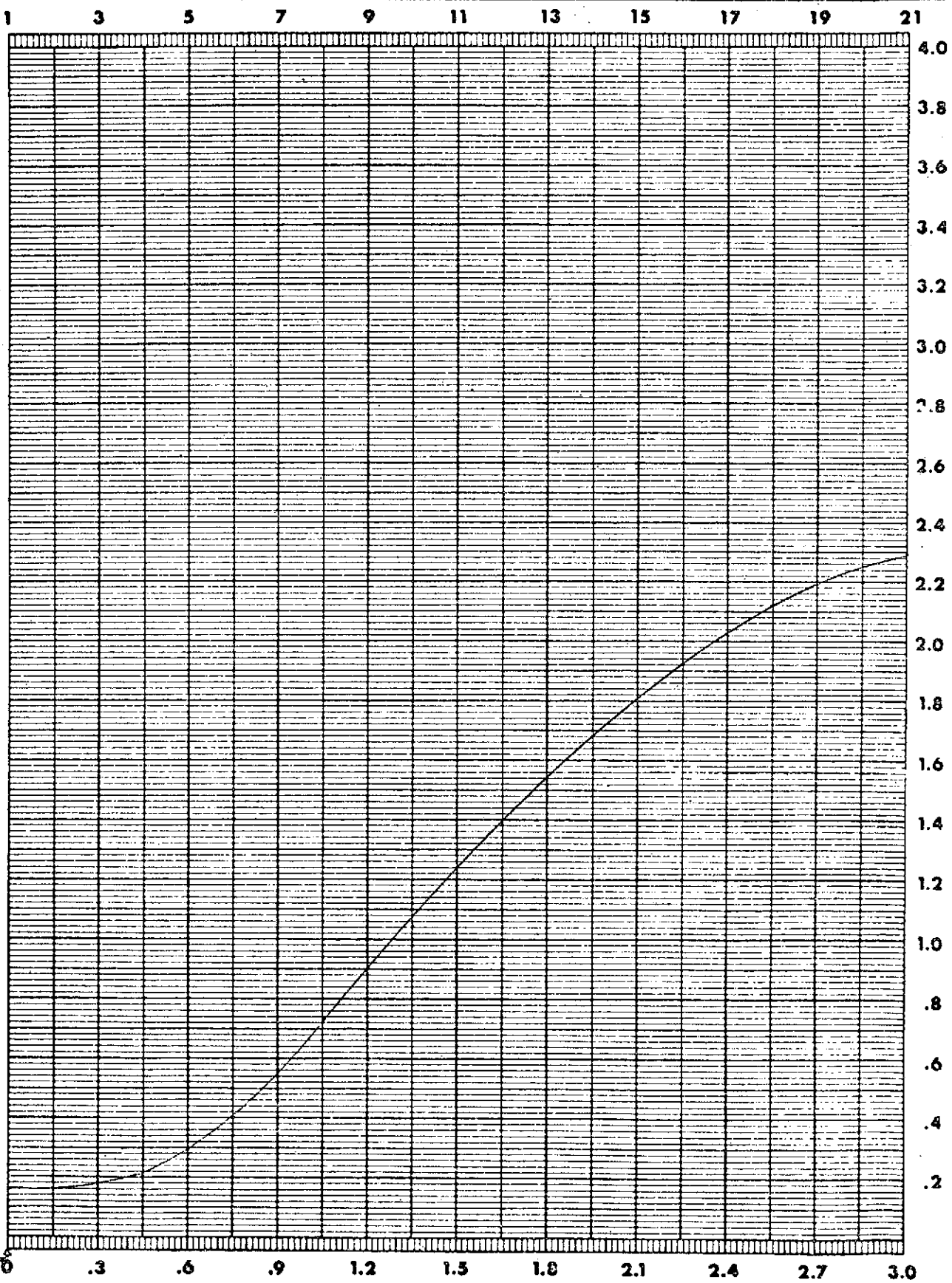

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 779-277/77

222

DATE June 72 CONTROL # 0-22 98° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

_____ KBr

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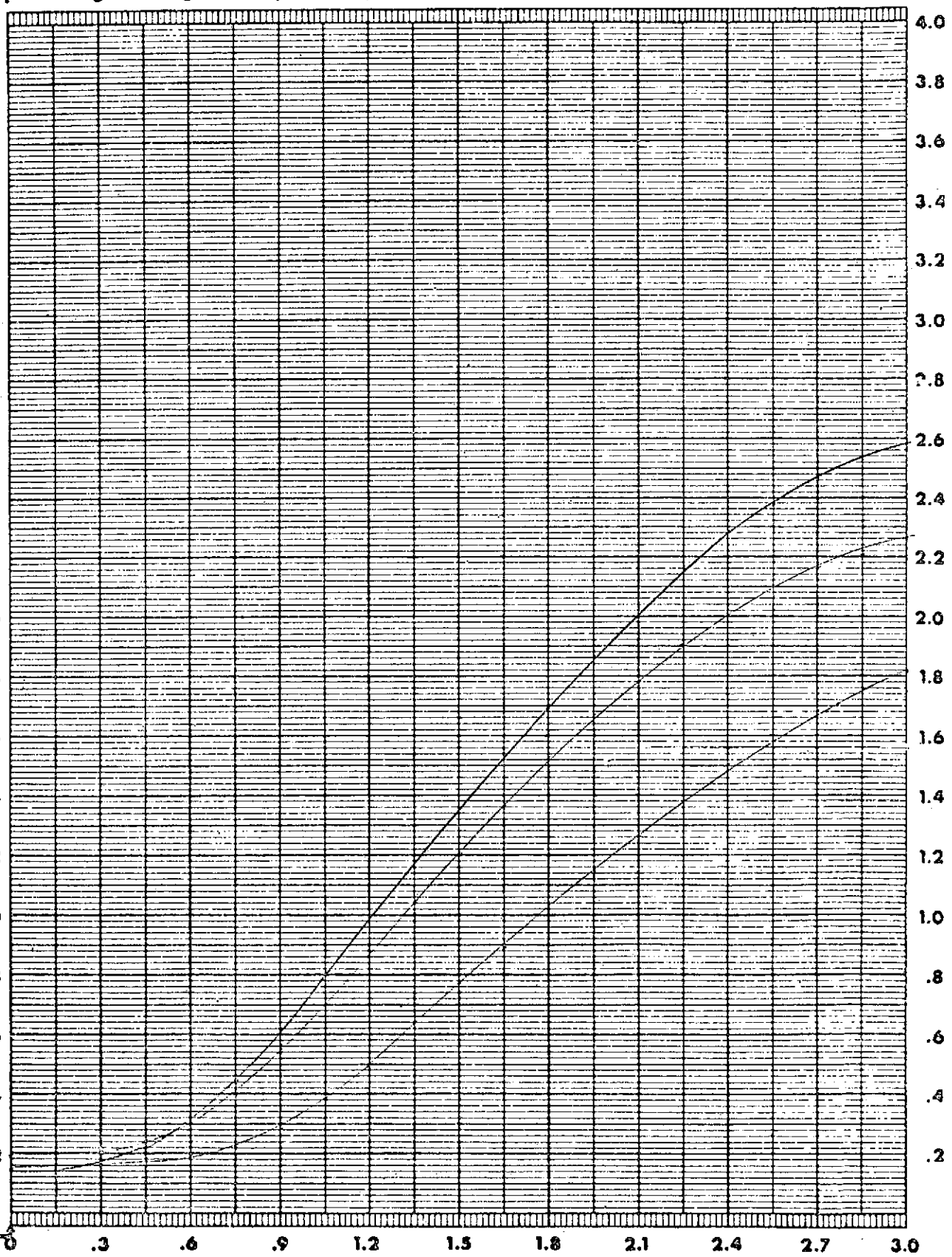

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # 0-22 98° Preh. 100° TASK HT-59 PREPARED BY E W

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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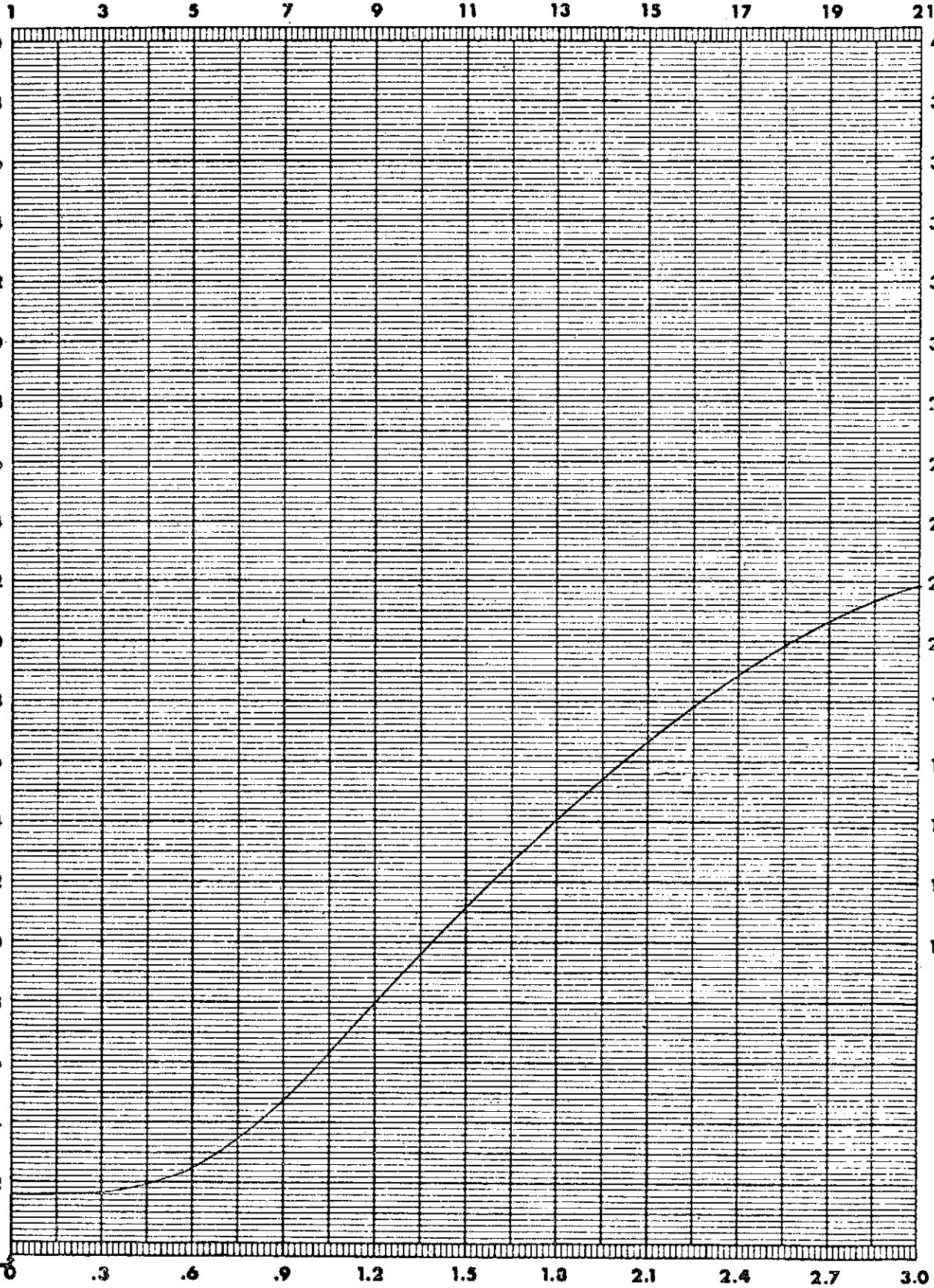

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ABSOLUTE LOG E AT R.L.E. 0

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T71-21

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972—779-757/77

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM / GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M / BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

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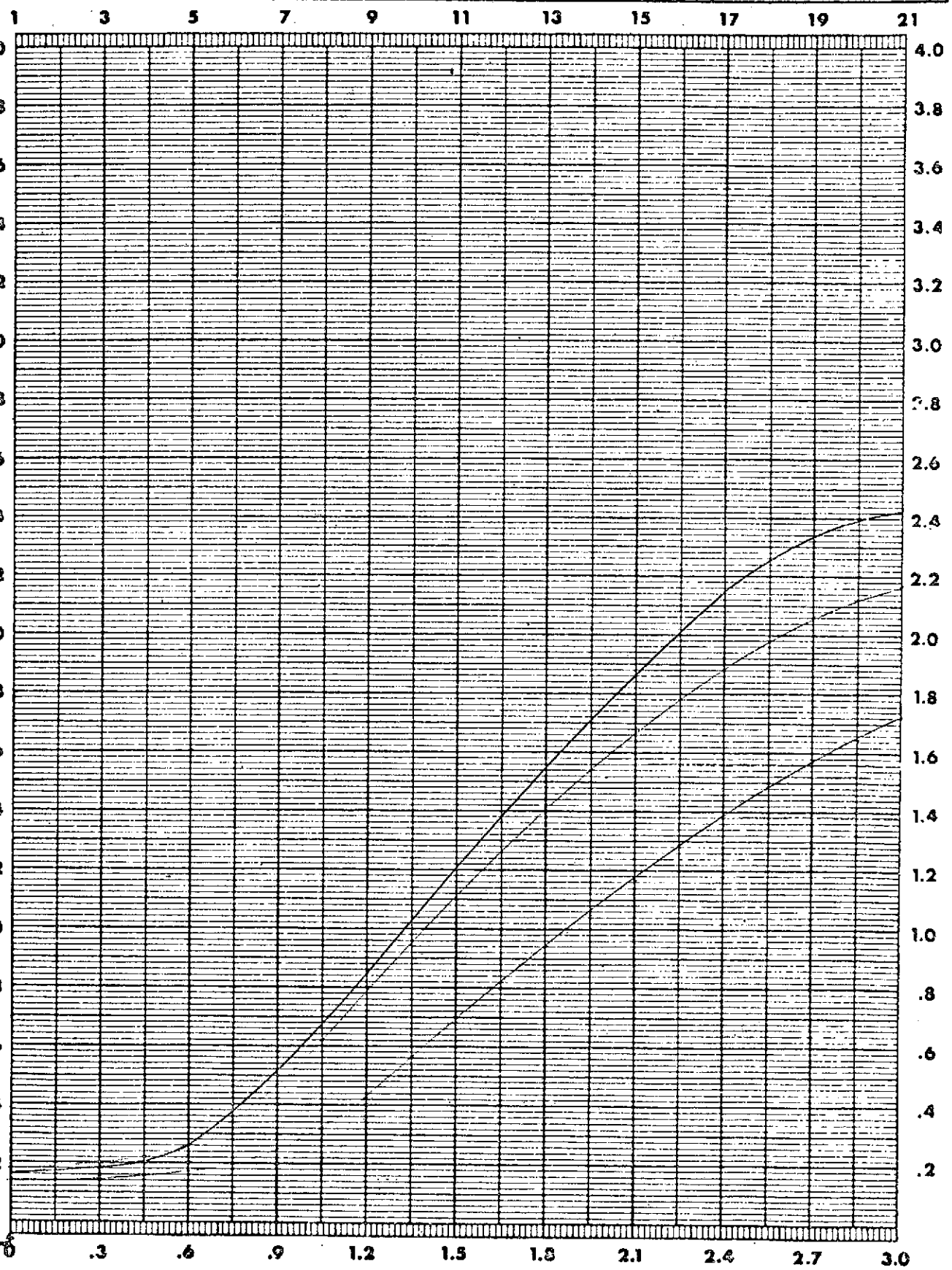

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

* U.S. GOVERNMENT PRINTING OFFICE: 1972 779-277/77

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-3	PROCESSOR 1411	INSTRUMENT Eacbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

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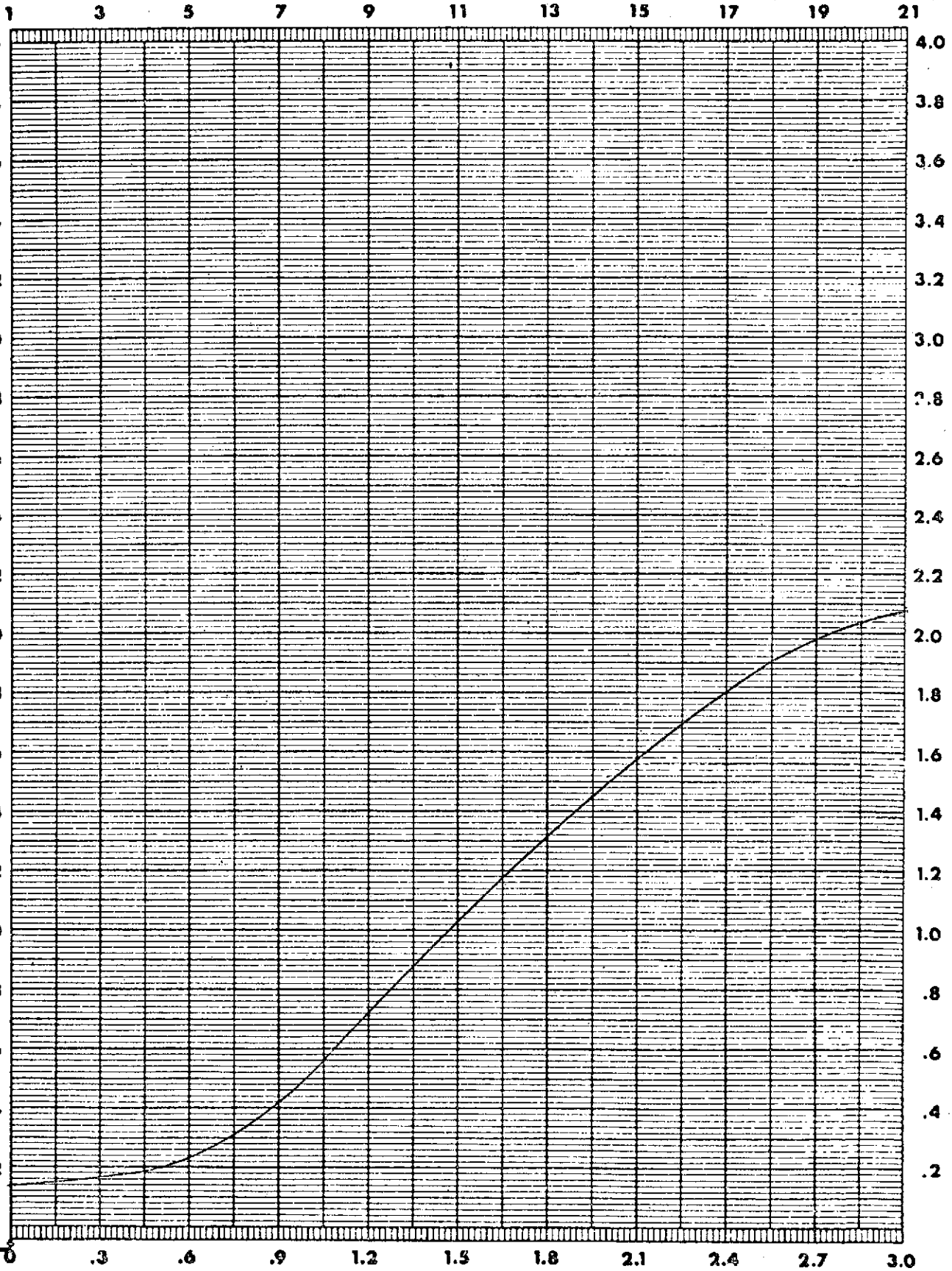

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVT. PRINTING OFFICE: 1972 — 778-257/472

#20

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-3	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

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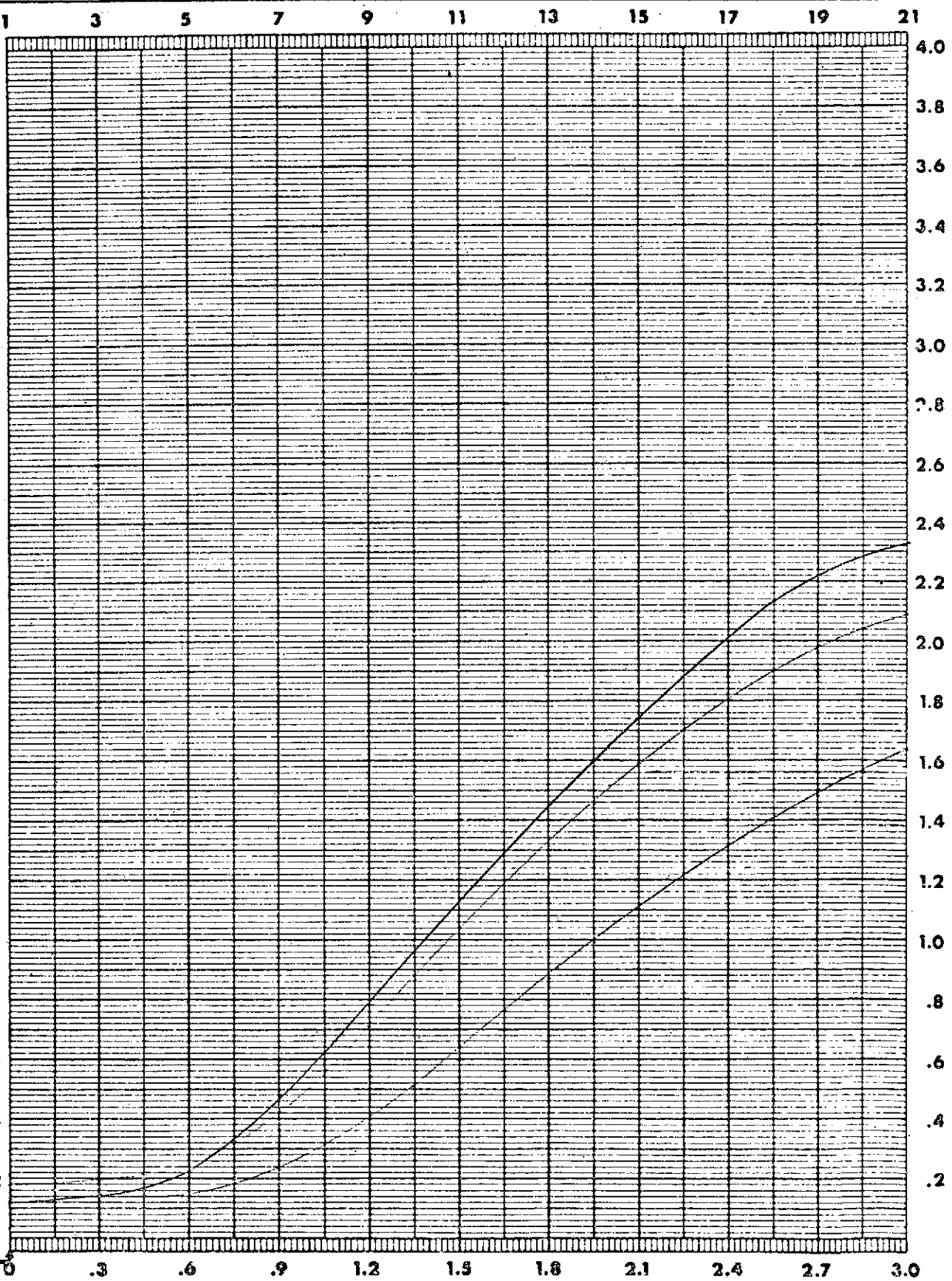

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ABSOLUTE LOG E AT R.L.E. = 0 -10

T71-21

U.S. GOVT. PRINTING OFFICE 1972 - 779-577/77

DATE June 72 CONTROL # 0-22 98° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

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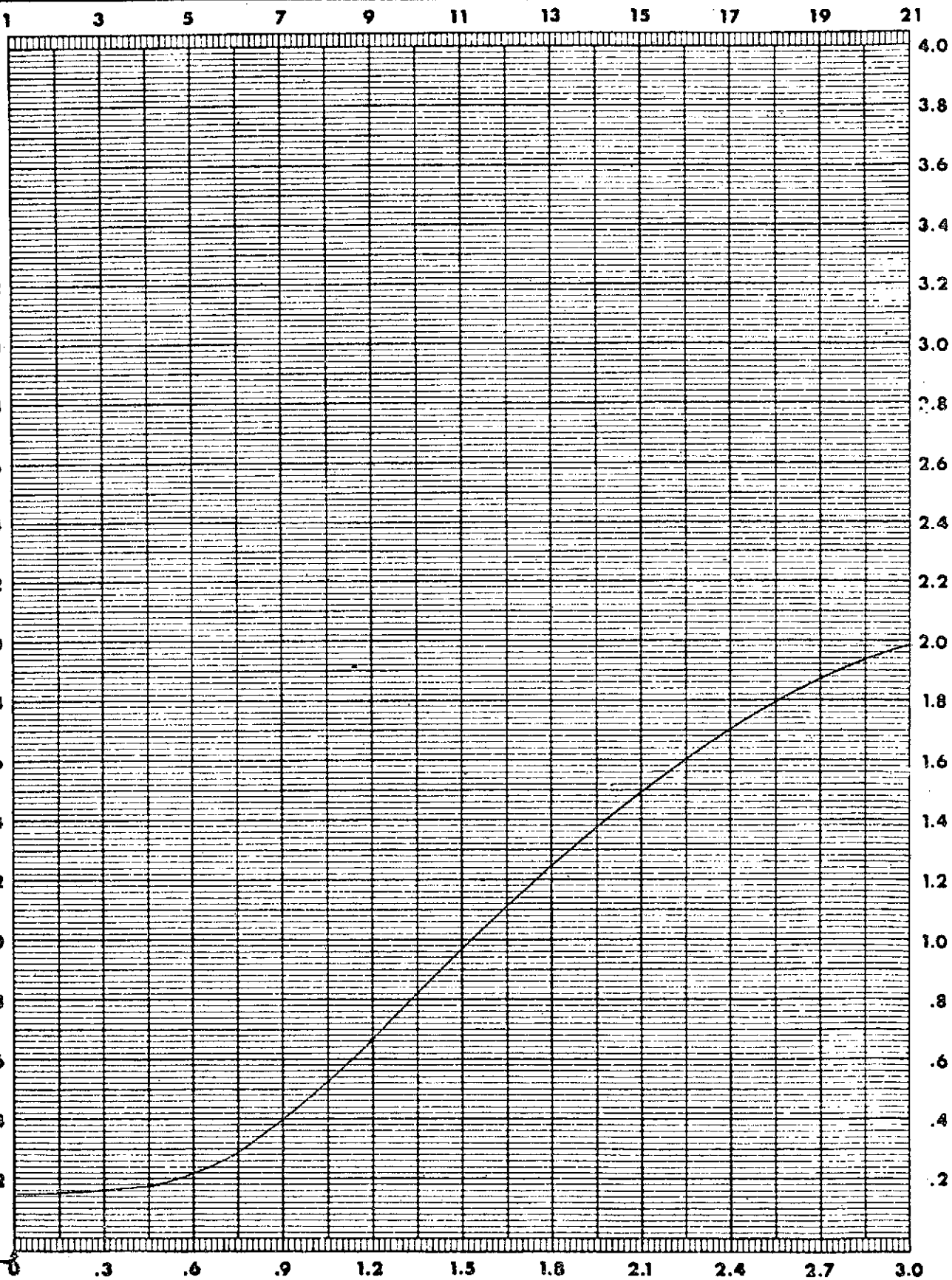

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 98° Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-3	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 7.5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2	TEMP °F TIME	FILTER Status K / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

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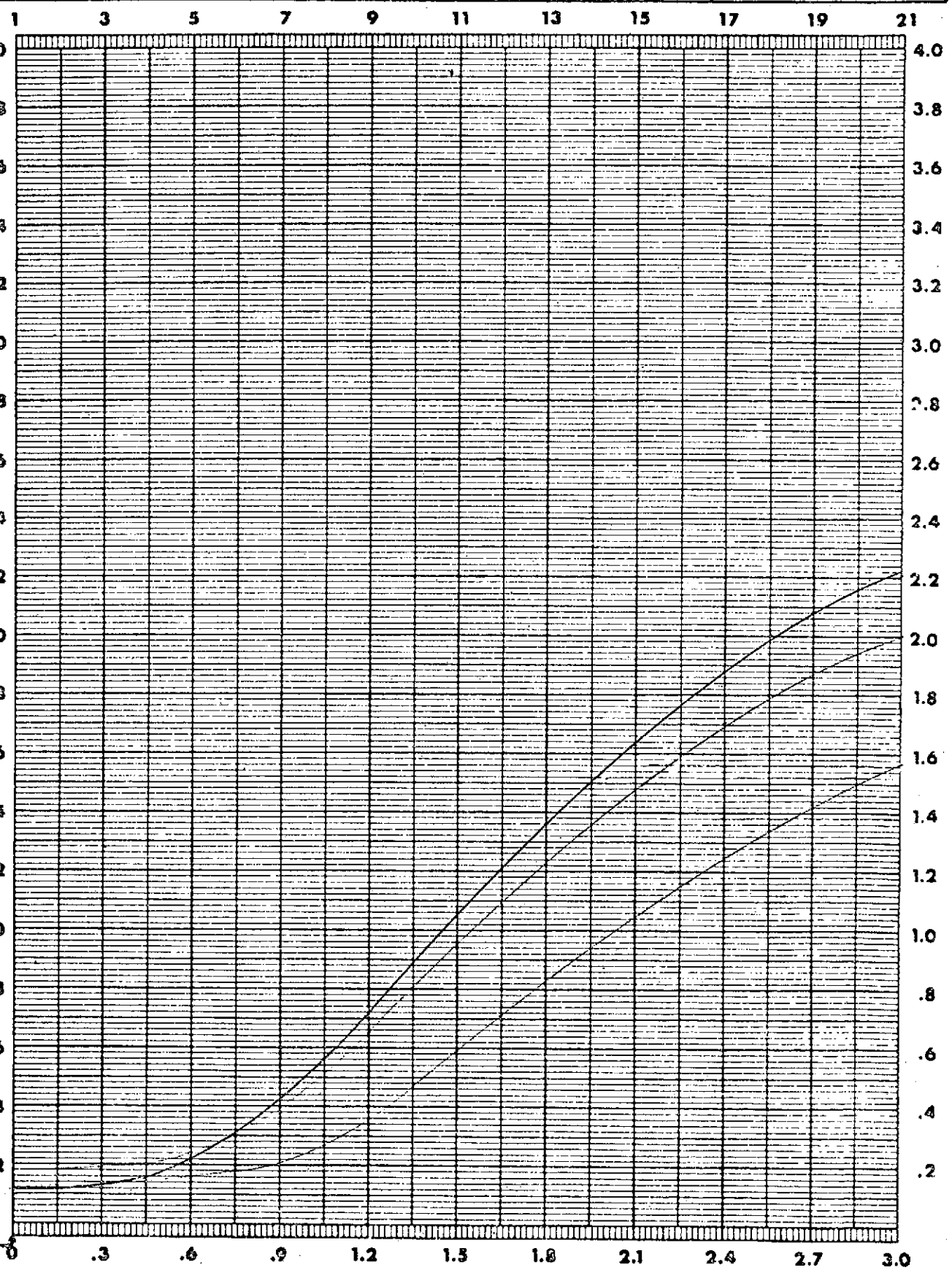

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 - 779 257/22

2. c-22 100°

DATE _____ CONTROL # ~~Proh. 100°~~ TASK HT-59 PREPARED BY E.H.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

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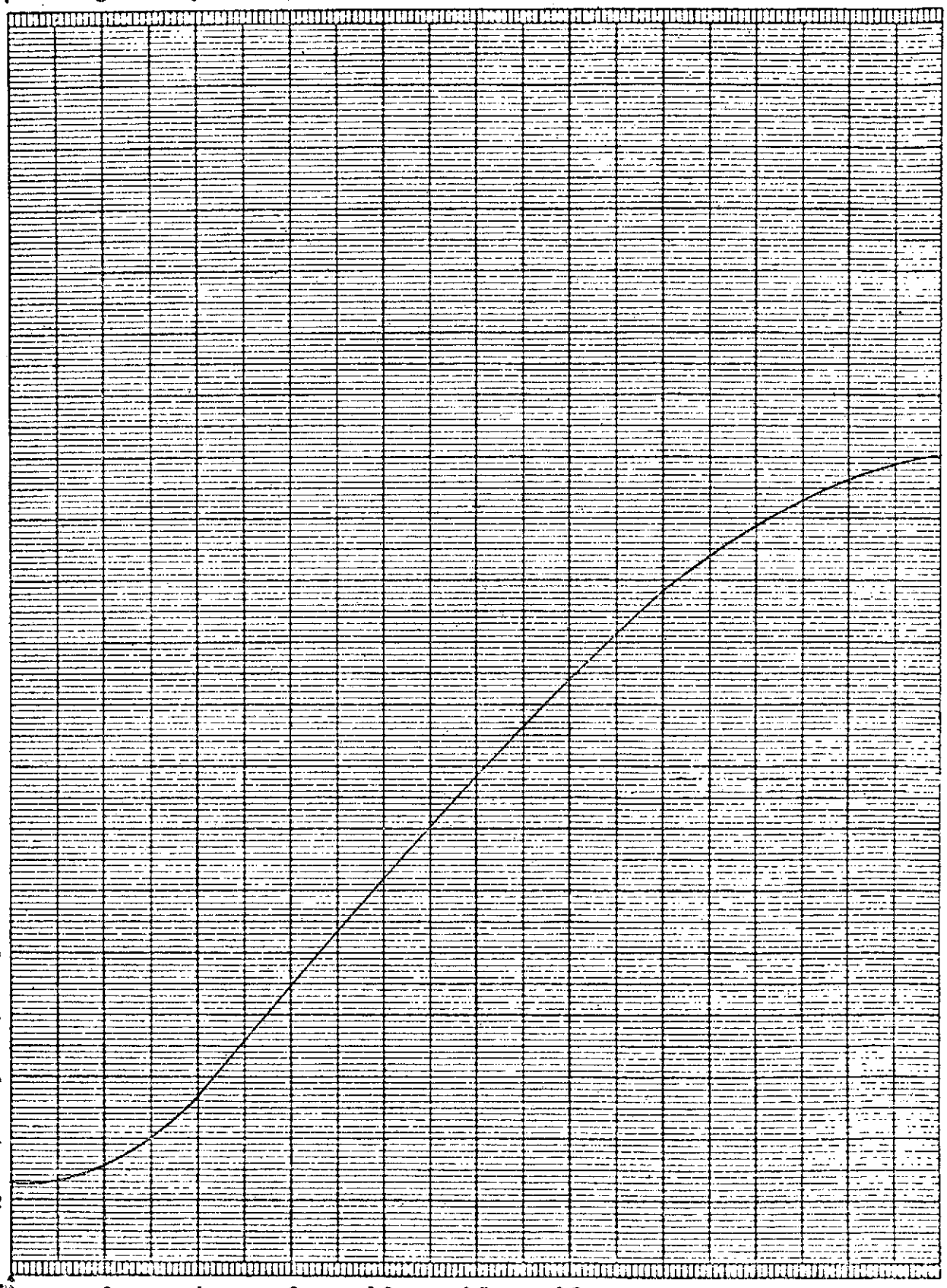

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ABSOLUTE LOG E AT R.L.E. = 0 -10

T71 21

2

DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

DENSITOMETRY	
SPEED ( )	_____
D-MAX	_____
GAMMA	_____
BASE + FOG	_____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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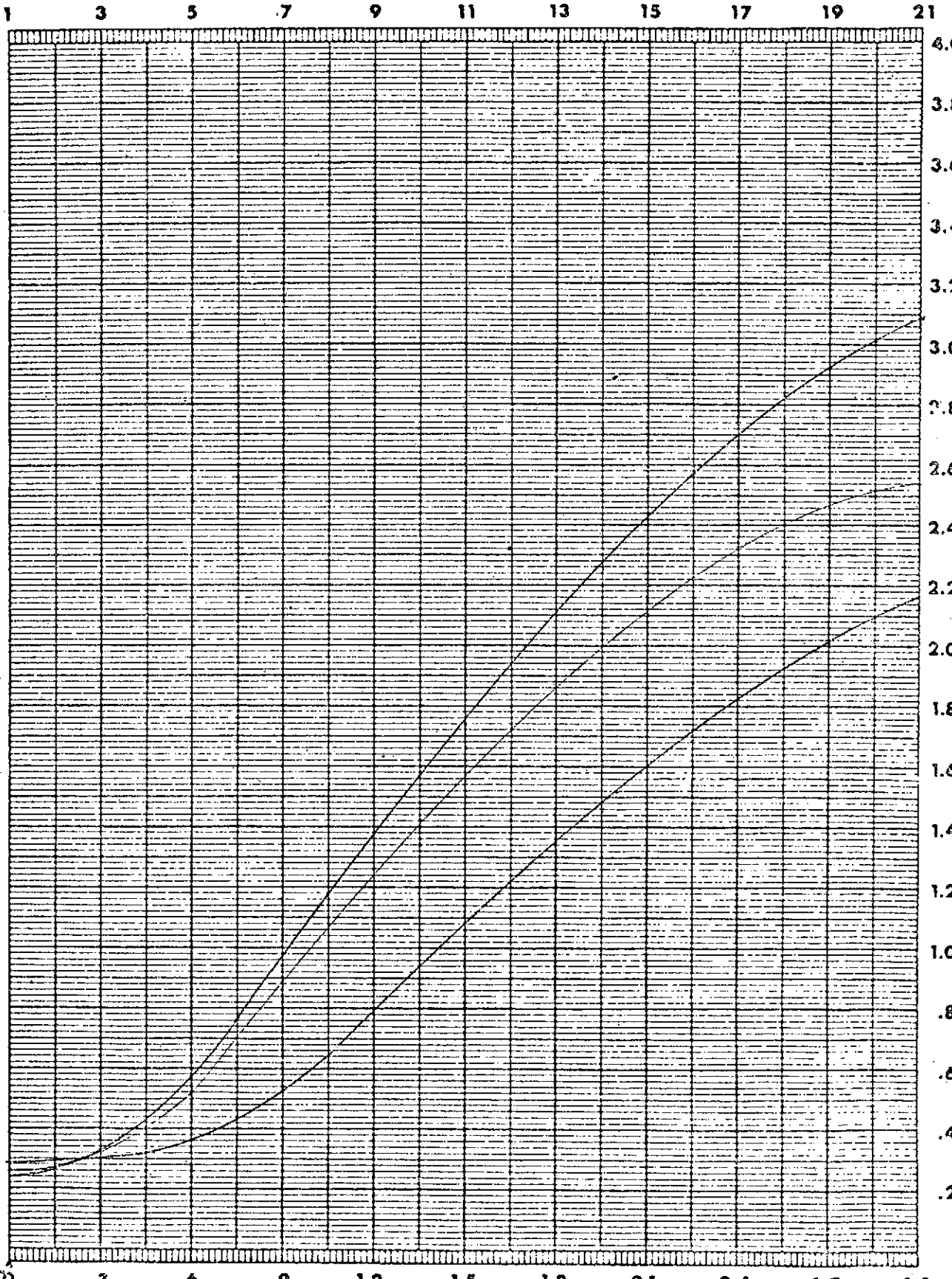

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 779-249/19

DATE _____ CONTROL # C-22 100° Preh 100° TASK HT-59 PREPARED BY E. H.

FILM 2445 EMULSION # _____ MFG E K Co EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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_____ TRP

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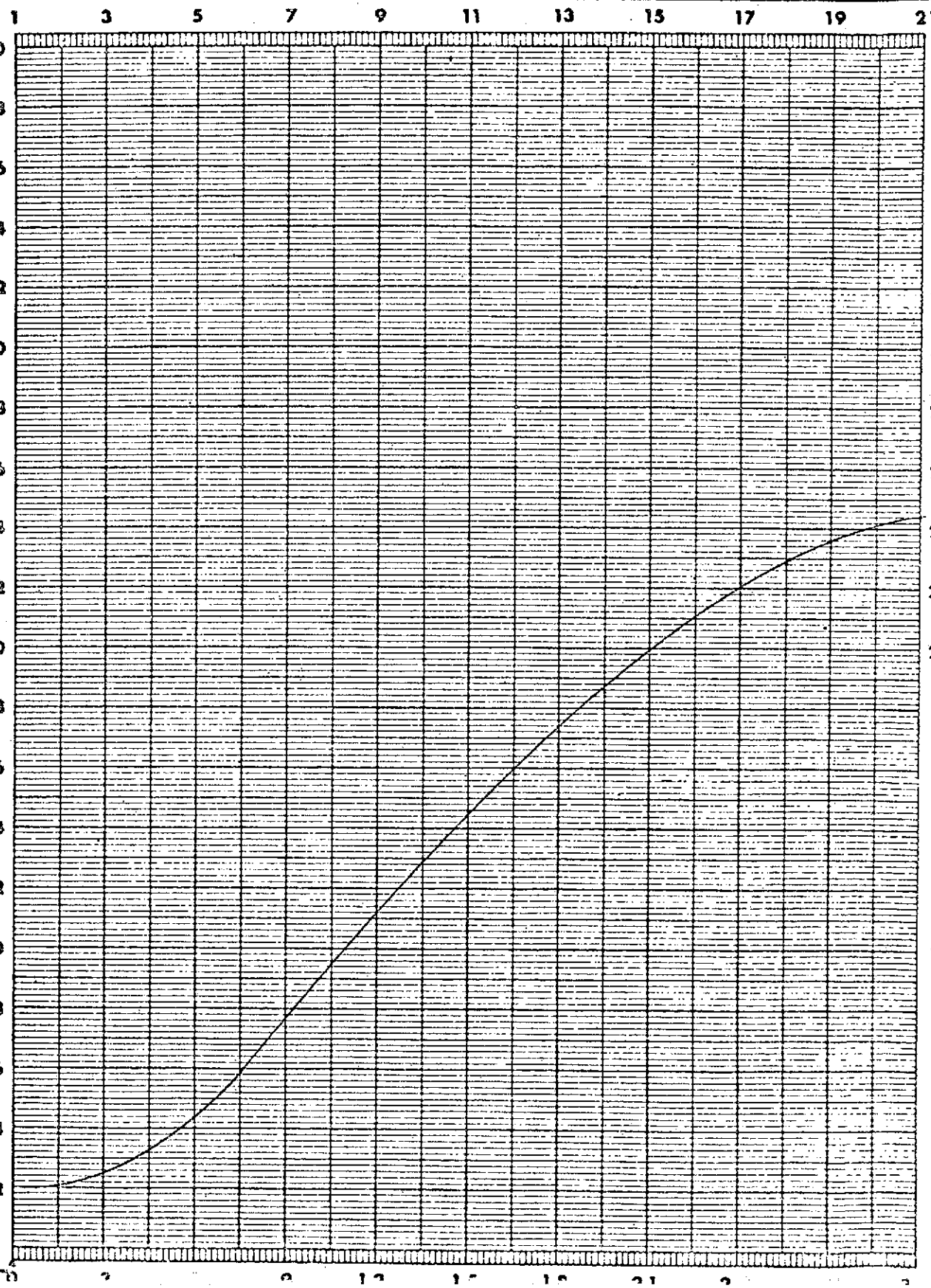

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ABSOLUTE LOG E AT R.L.E. - 0

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DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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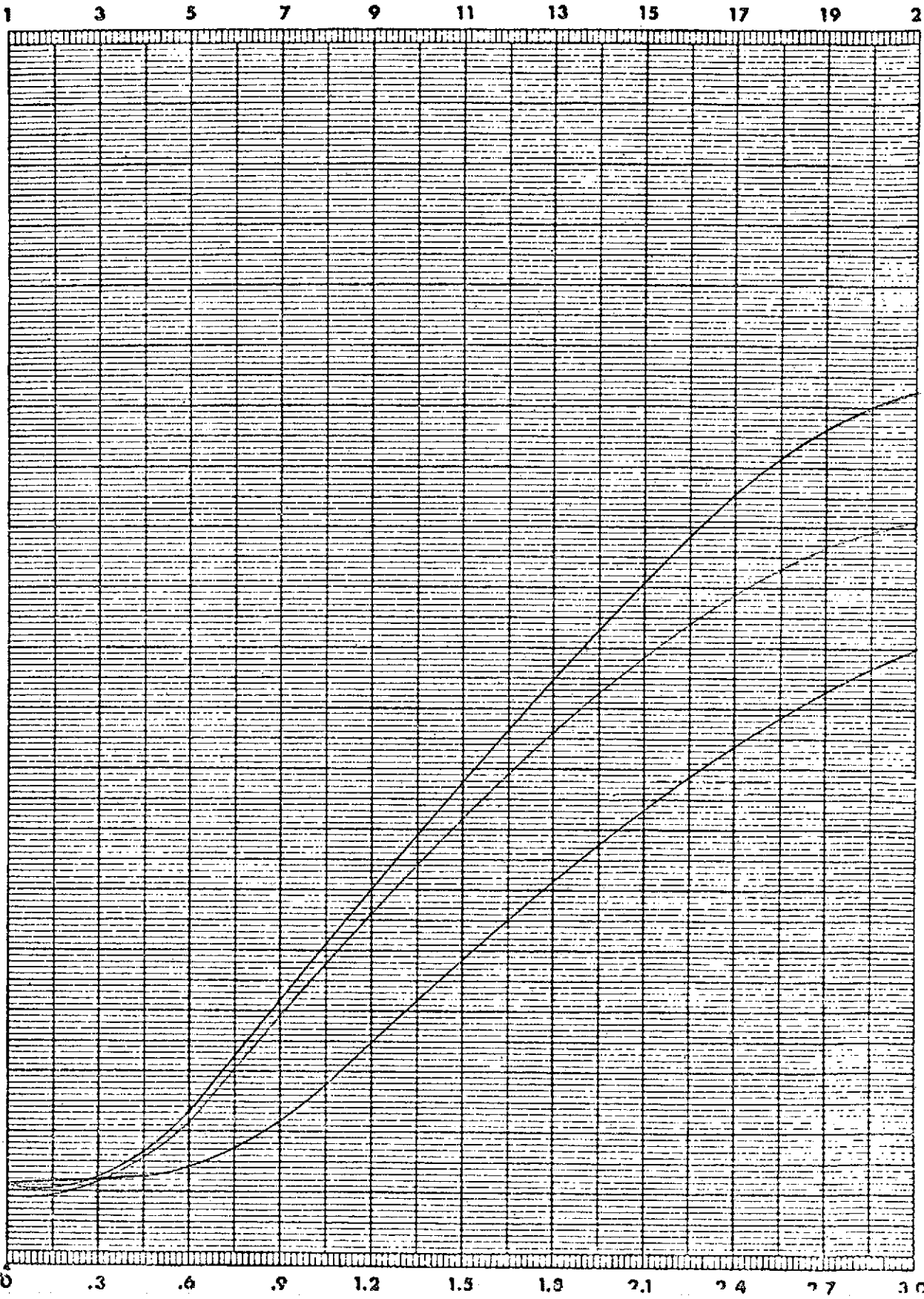

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ABSOLUTE LOG E AT R.L.E. - 0 -10

T71 21

4

DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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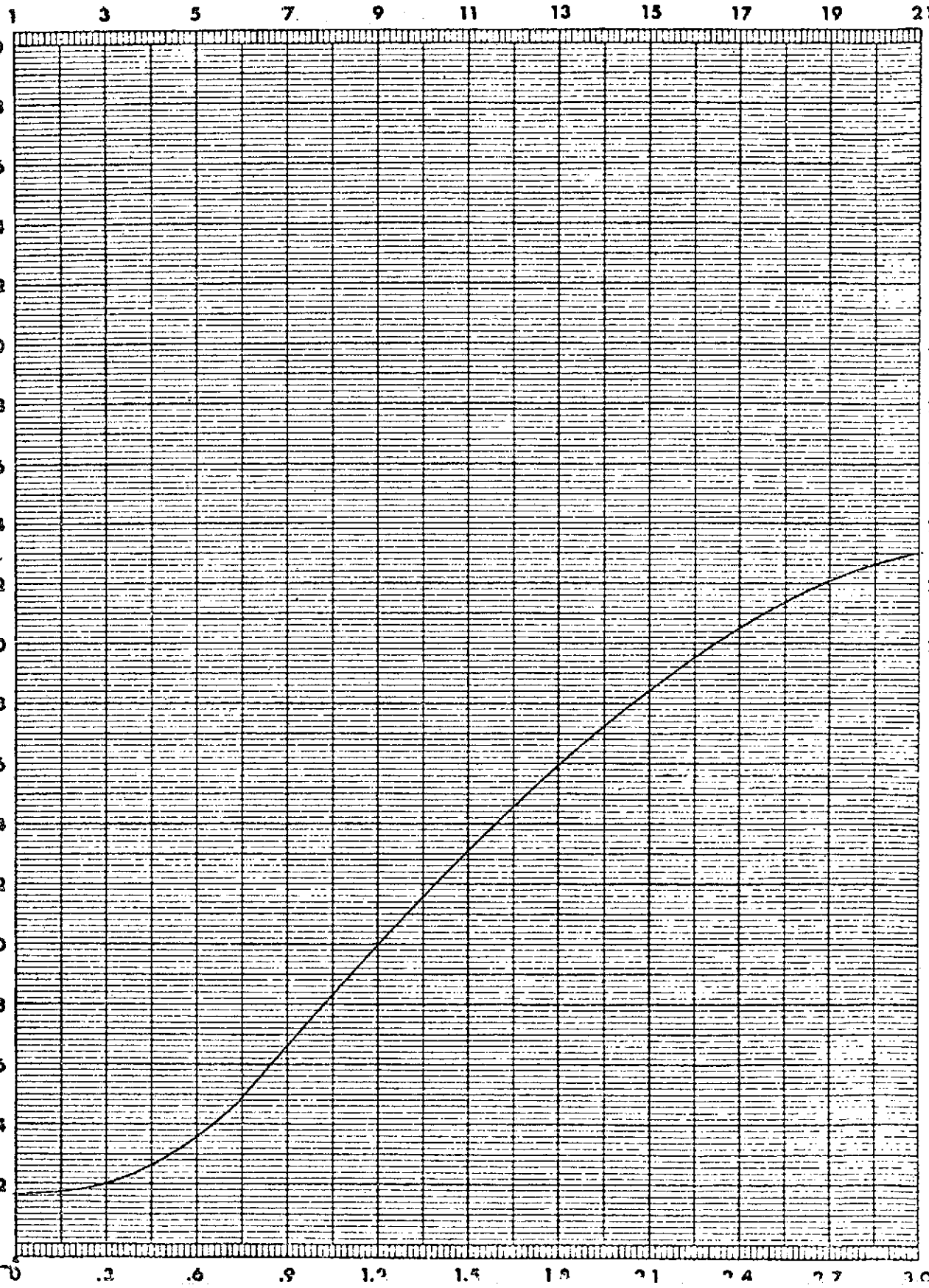

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ABSOLUTE LOG E AT R.L.E. = 0

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DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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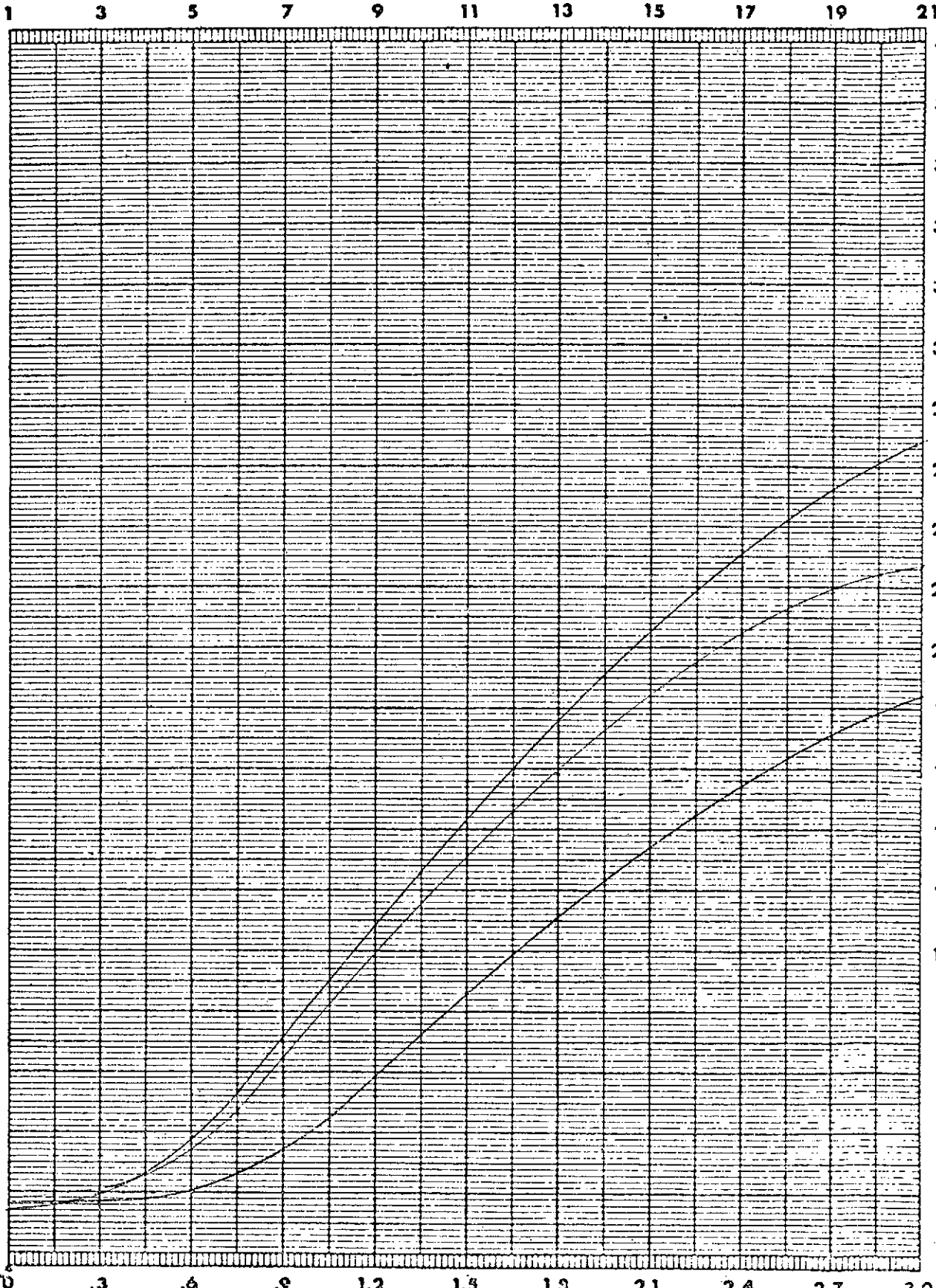

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972

3.

DATE _____ CONTROL # C-22 100° Preh 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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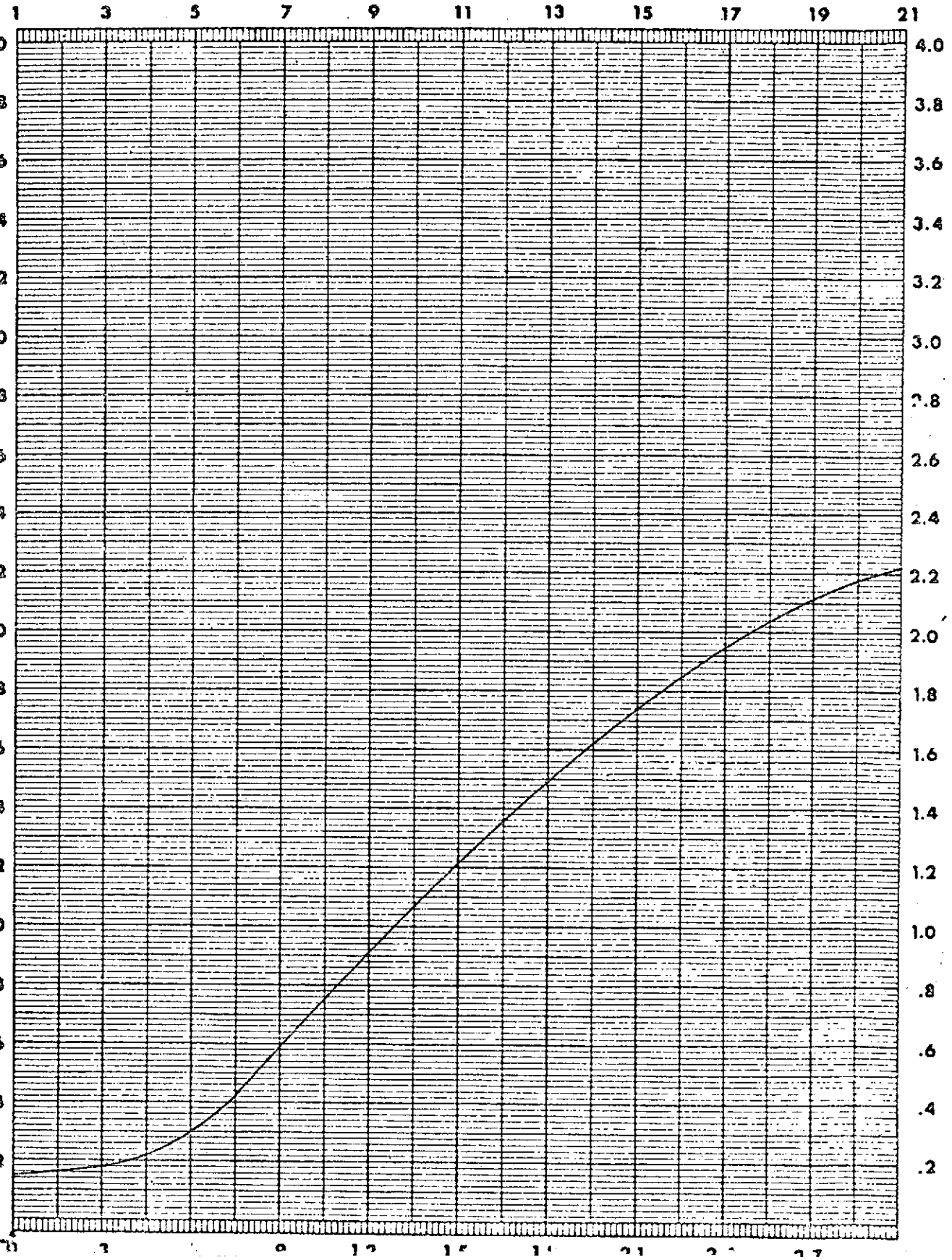

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ABSOLUTE LOG E AT R.L.E. = 0

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DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 6.4 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

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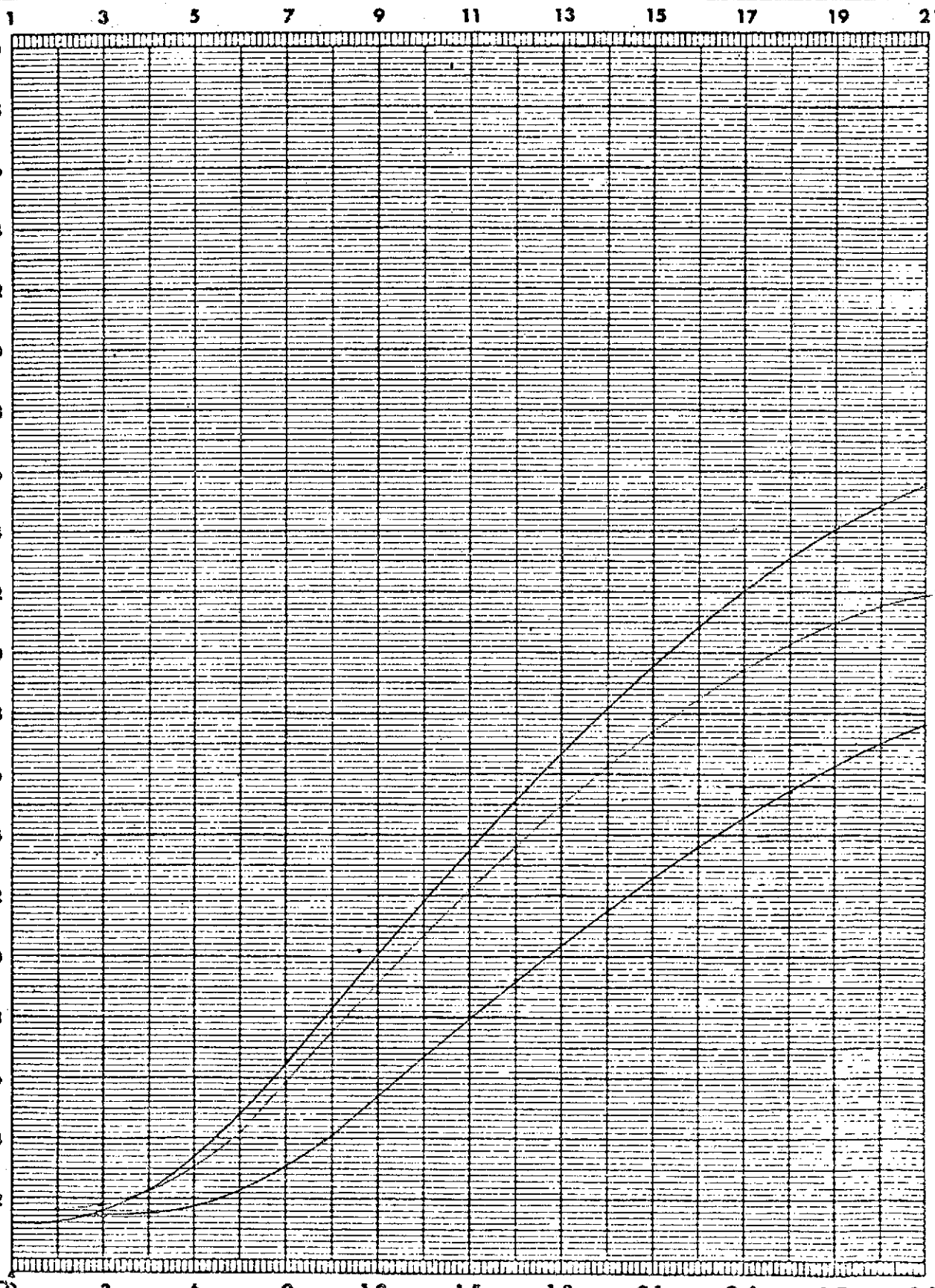

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

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6.

DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM	GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual	BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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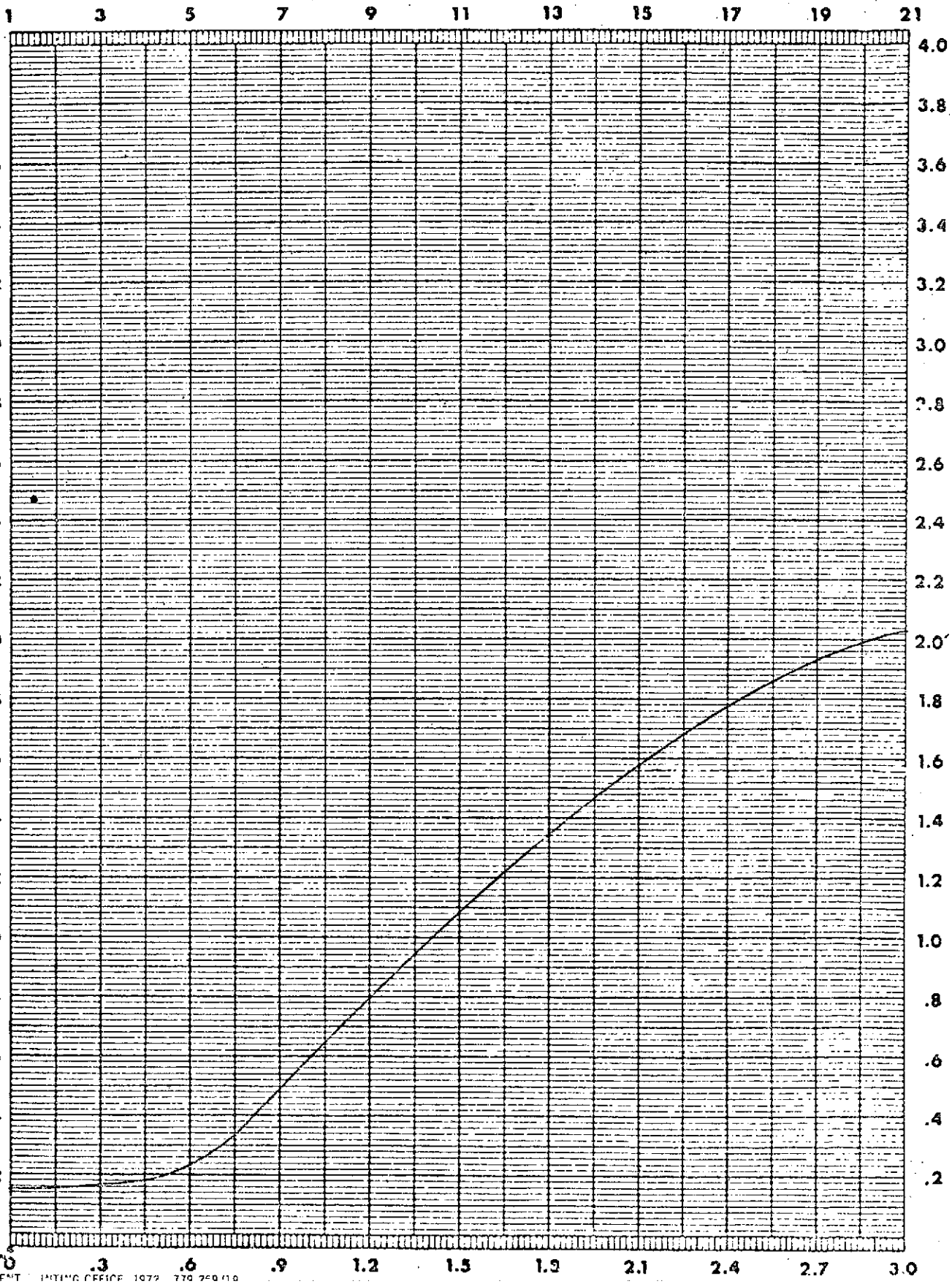

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

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U.S. GOVERNMENT PRINTING OFFICE 1972 779-269/19

DATE _____ CONTROL # C-22 100° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

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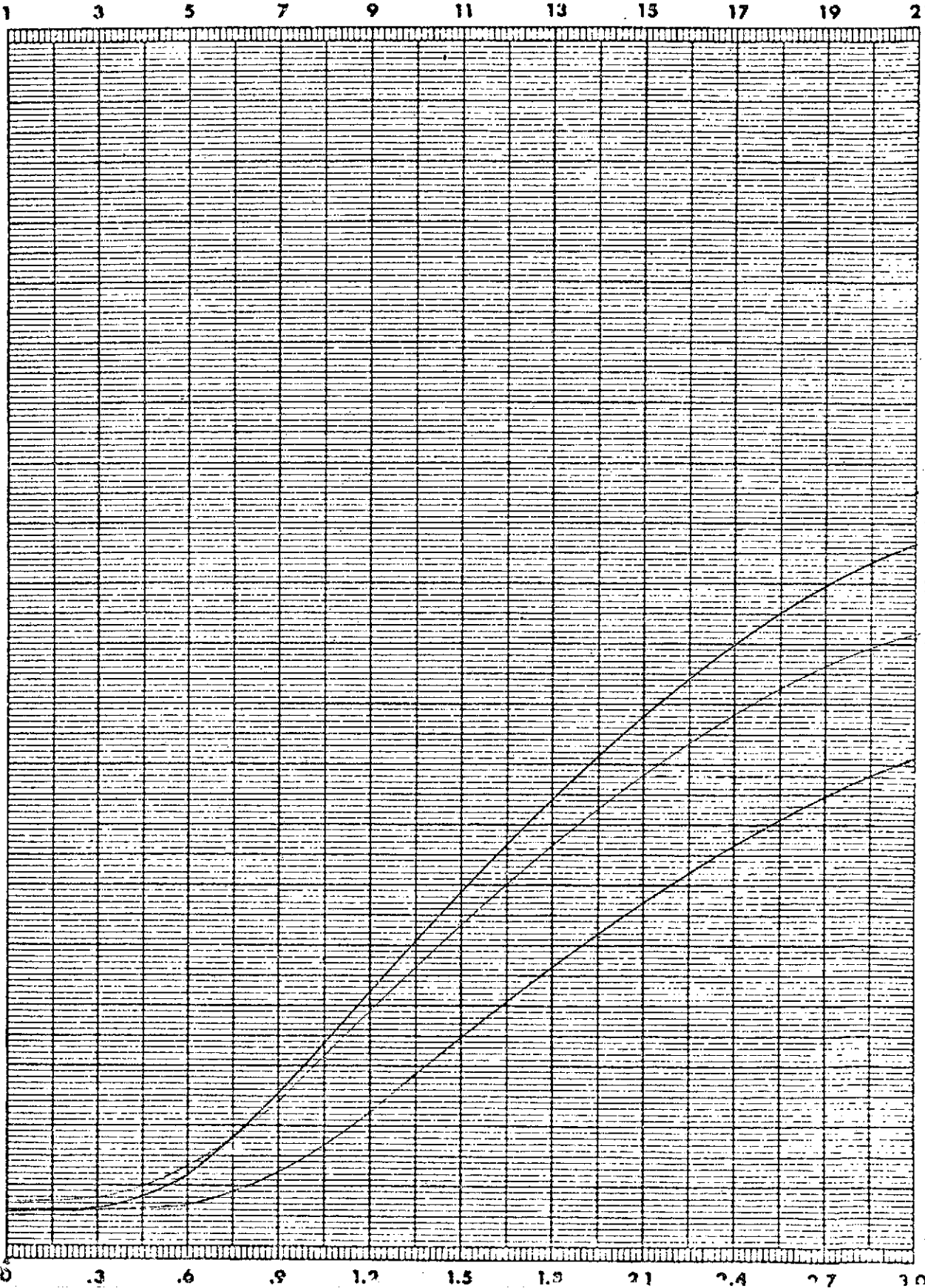

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0 -10

DATE _____ CONTROL # C-22 100 Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

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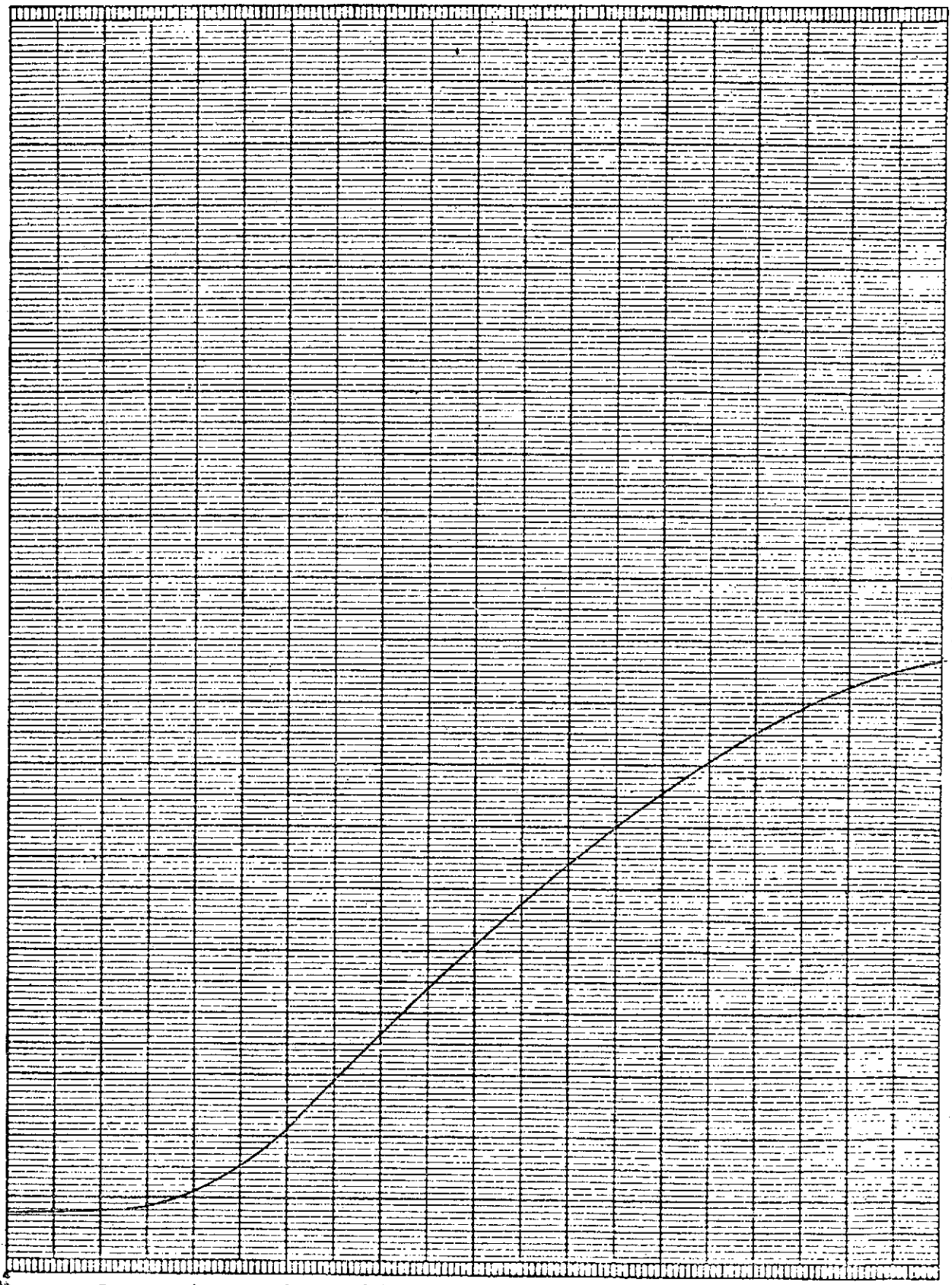

Technicolor

ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

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4-12

DATE June 72 CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

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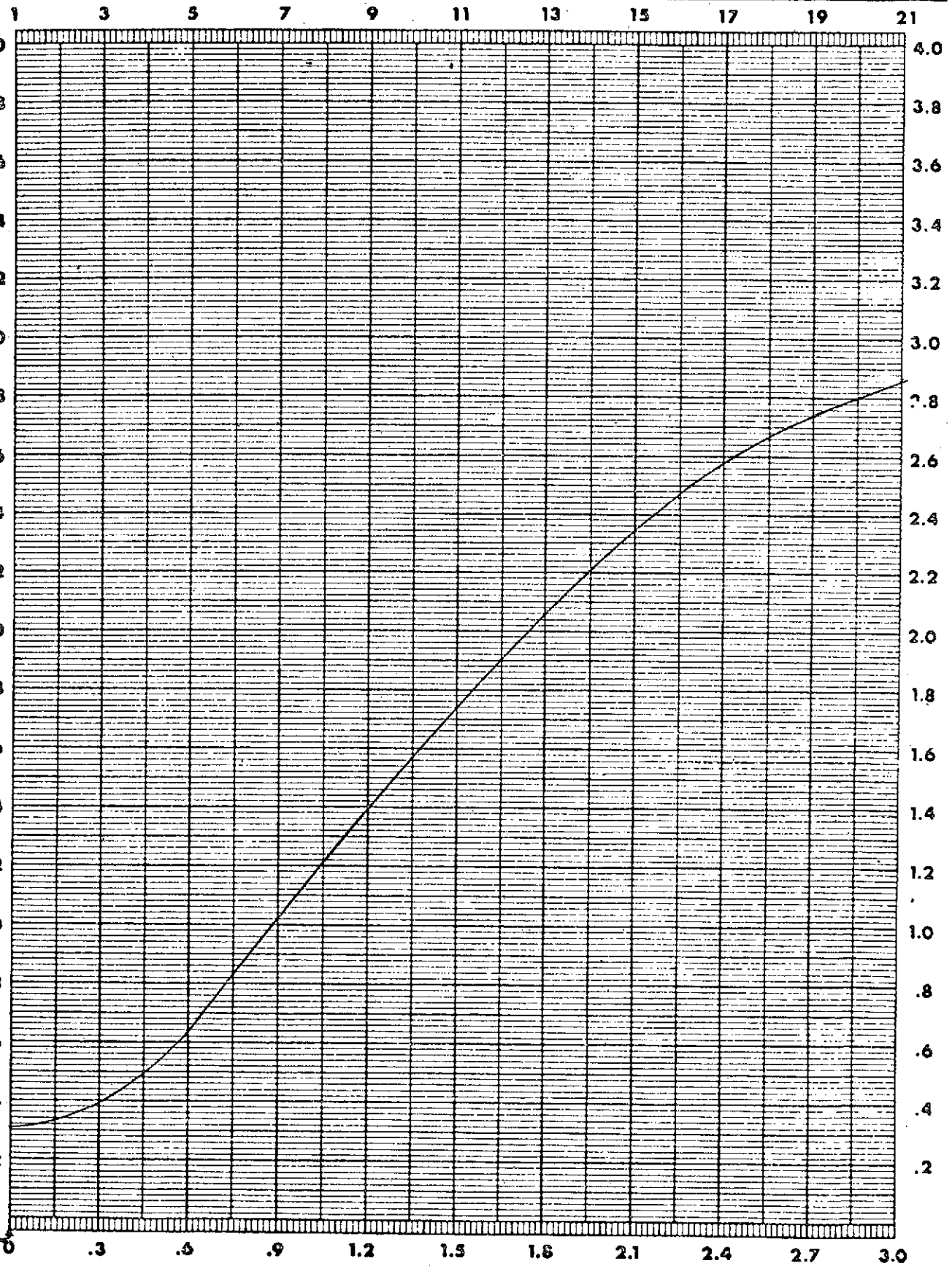

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

#12

DATE June 72 CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

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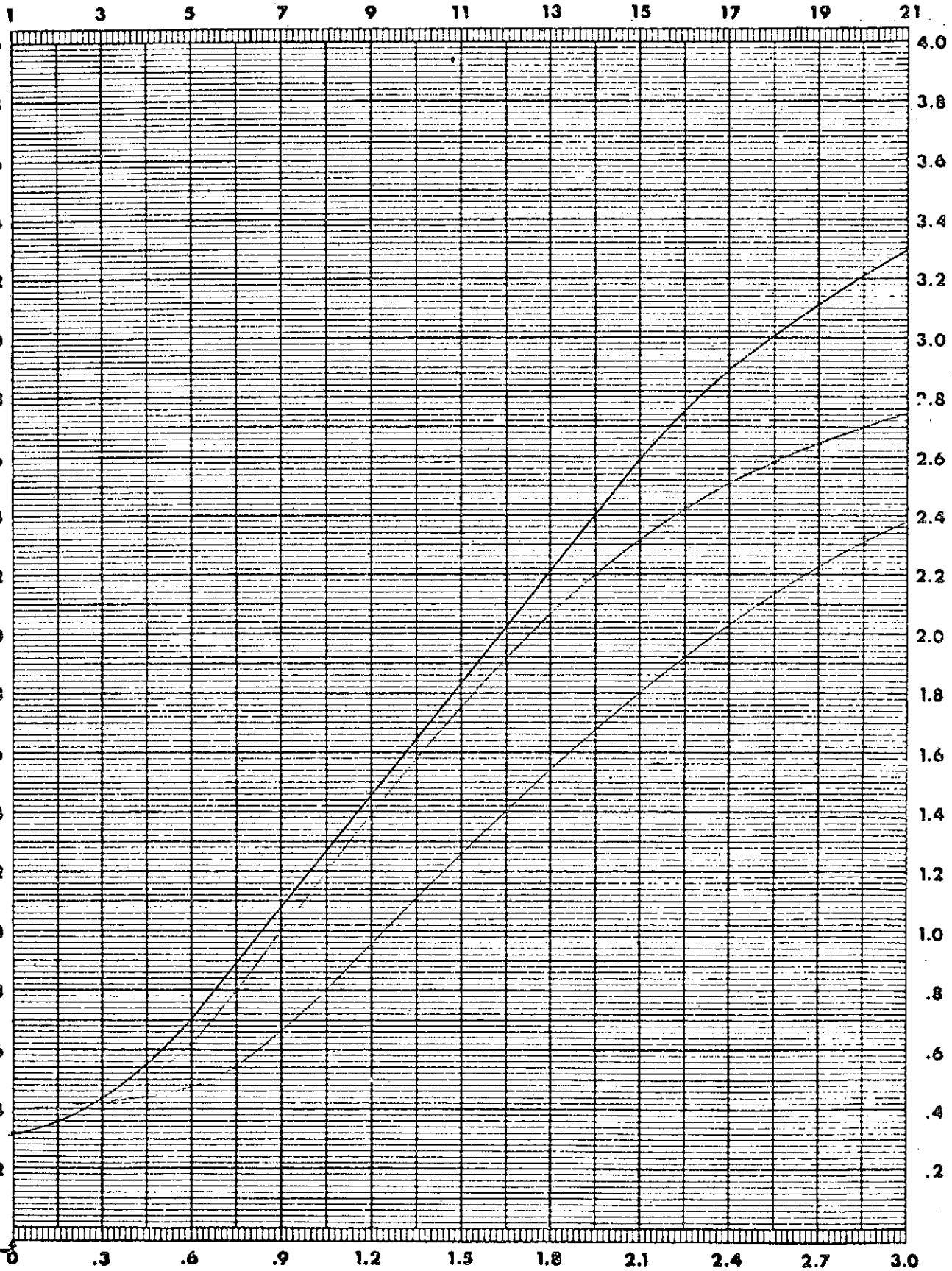

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER I-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

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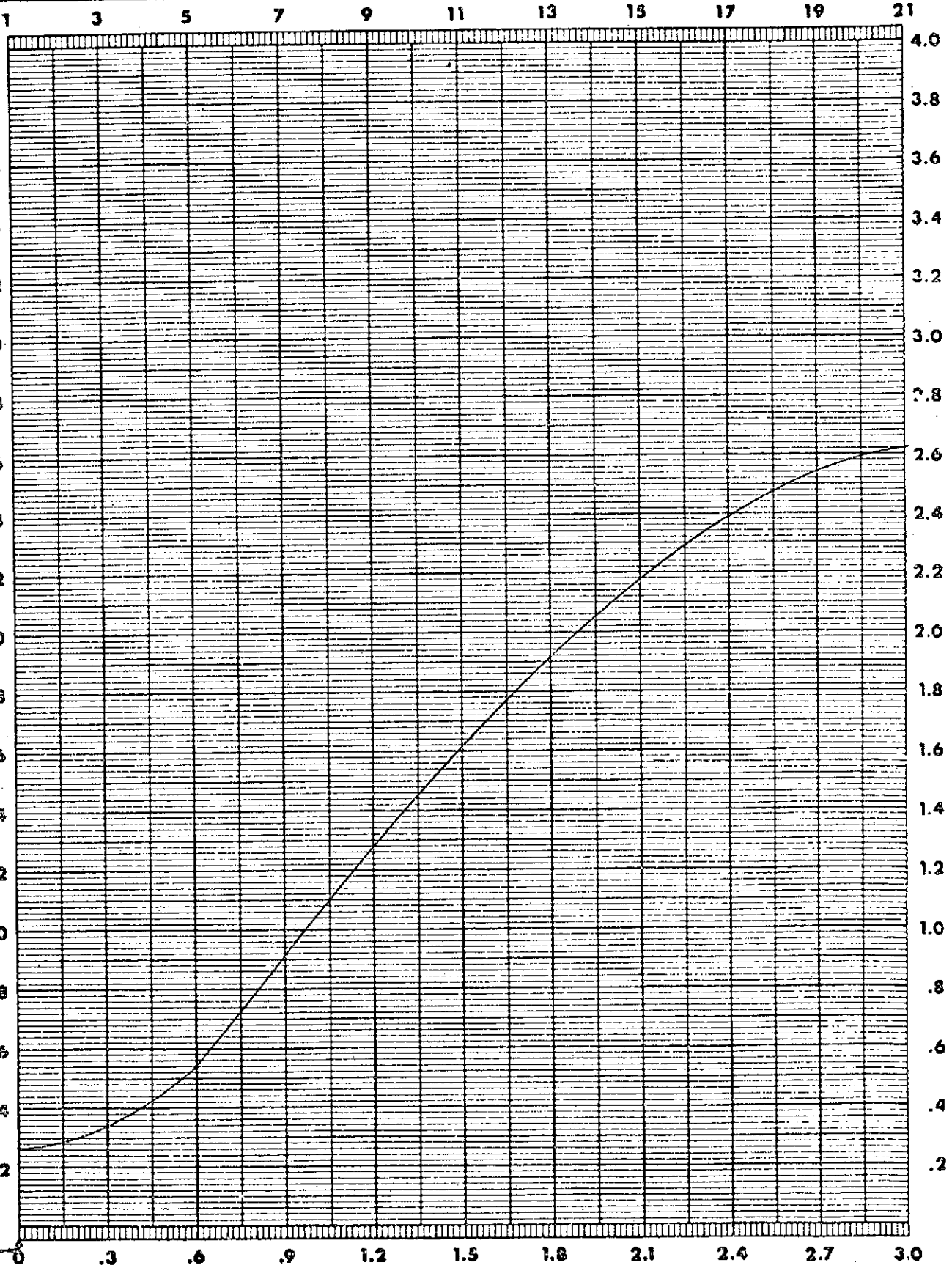

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ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

DATE June 72 CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203	D-MAX
TIME SEC.	SPEED TANKS 5.5 FPM	APERTURE SIZE 4 MM	GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M	BASE + FOG

CHEMICAL ANALYSIS

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pH

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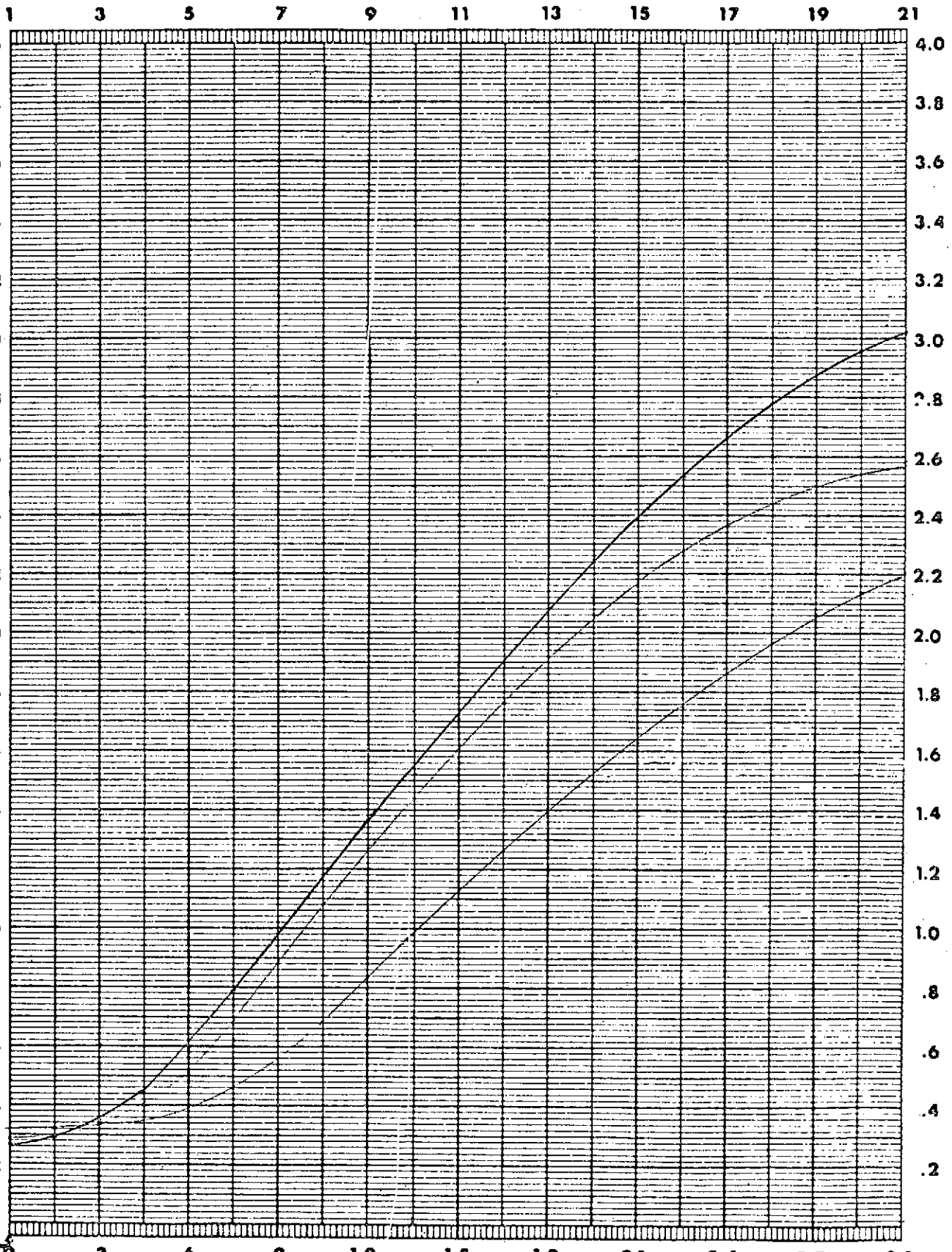

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

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DATE _____ CONTROL # C-22 102° Preh 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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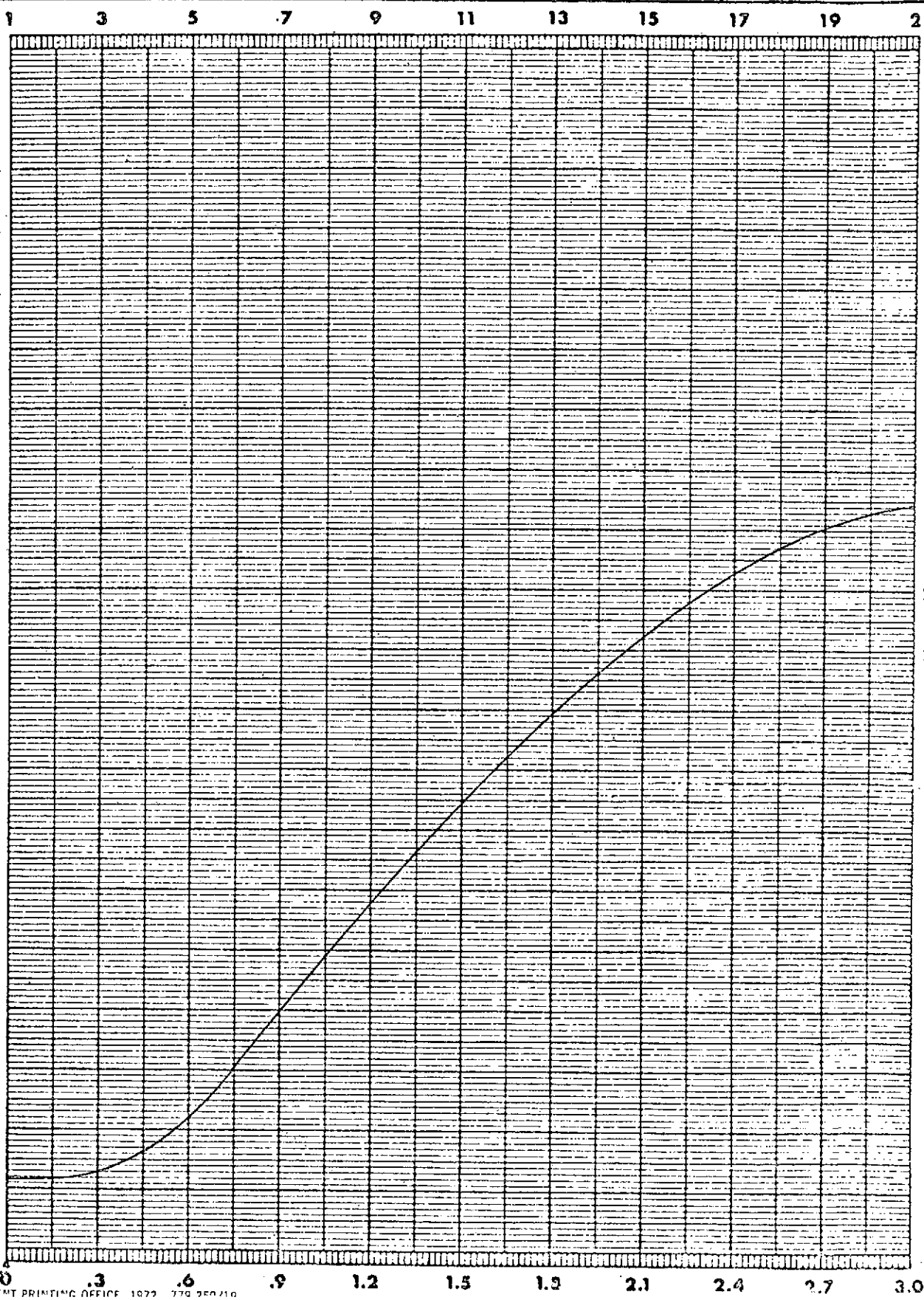

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ABSOLUTE LOG E AT R.L.E. = 0 −10

T71-21 * U.S. GOVERNMENT PRINTING OFFICE 1972 779-259/19

DATE _____ CONTROL # C-22 102° / Preh. 100° TASK HT-59 PREPARED BY E.L.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

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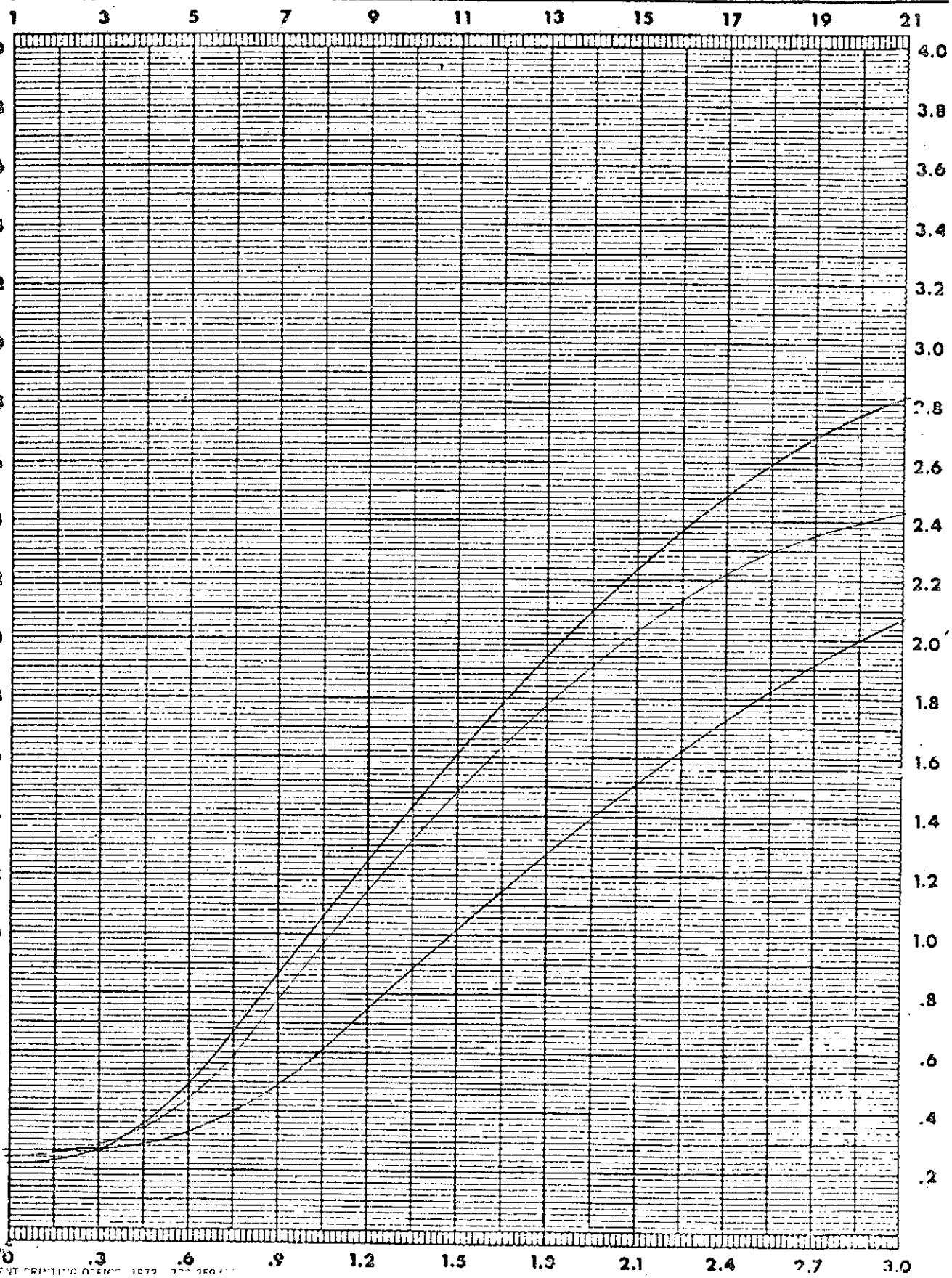

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ABSOLUTE LOG E AT R.L.E. - 0 = -10

T71-21

U.S. GOVERNMENT PRINTING OFFICE 1972

9.

DATE _____ CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E. K.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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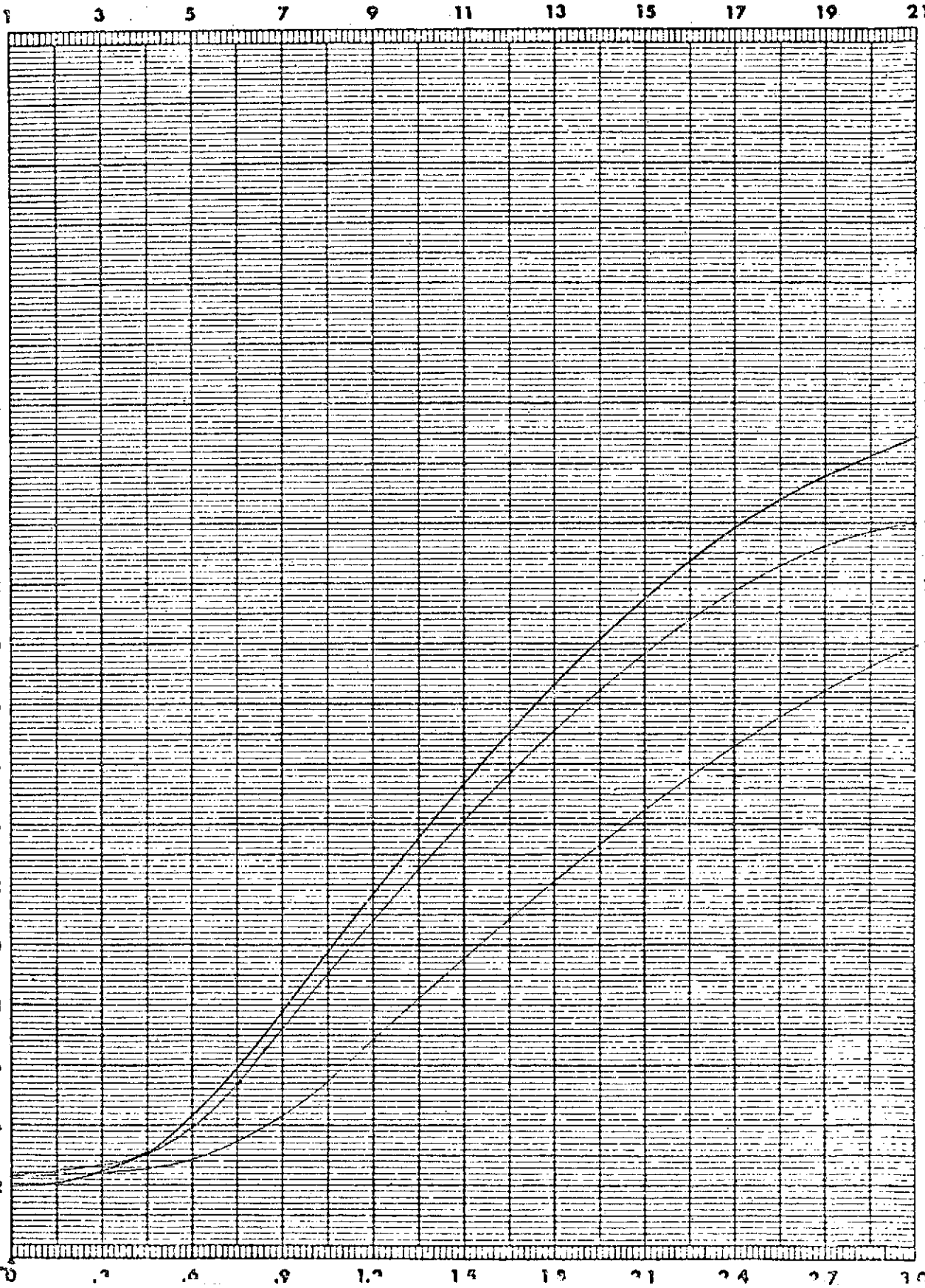

DATE _____ CONTROL # C-22 102° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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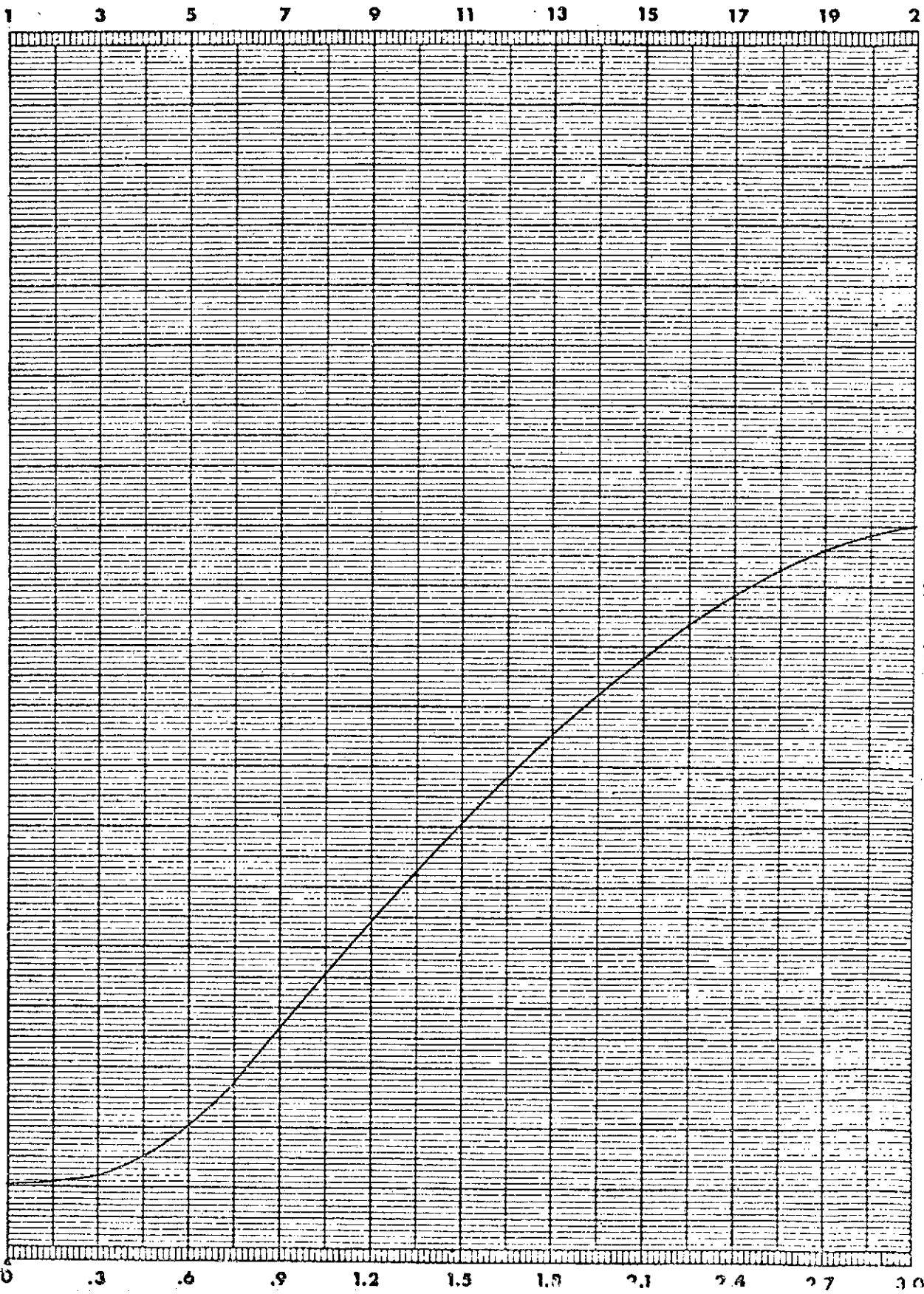

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ABSOLUTE LOG E AT R.L.E. - 0 -10

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DATE 15 JUN 72 CONTROL # C-22 102° Fresh 100° TASK HT-57 PREPARED BY SI

FILM 2445 EMULSION # _____ MFG _____ EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER I-B	PROCESSOR 1811	INSTRUMENT _____ SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY AR20-AR5	TYPE _____ D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.0 FPM	APERTURE SIZE _____ MM GAMMA _____
FILTER _____	TEMP °F _____ TIME _____	FILTER VISUAL BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

_____ TRP

_____ KB_r

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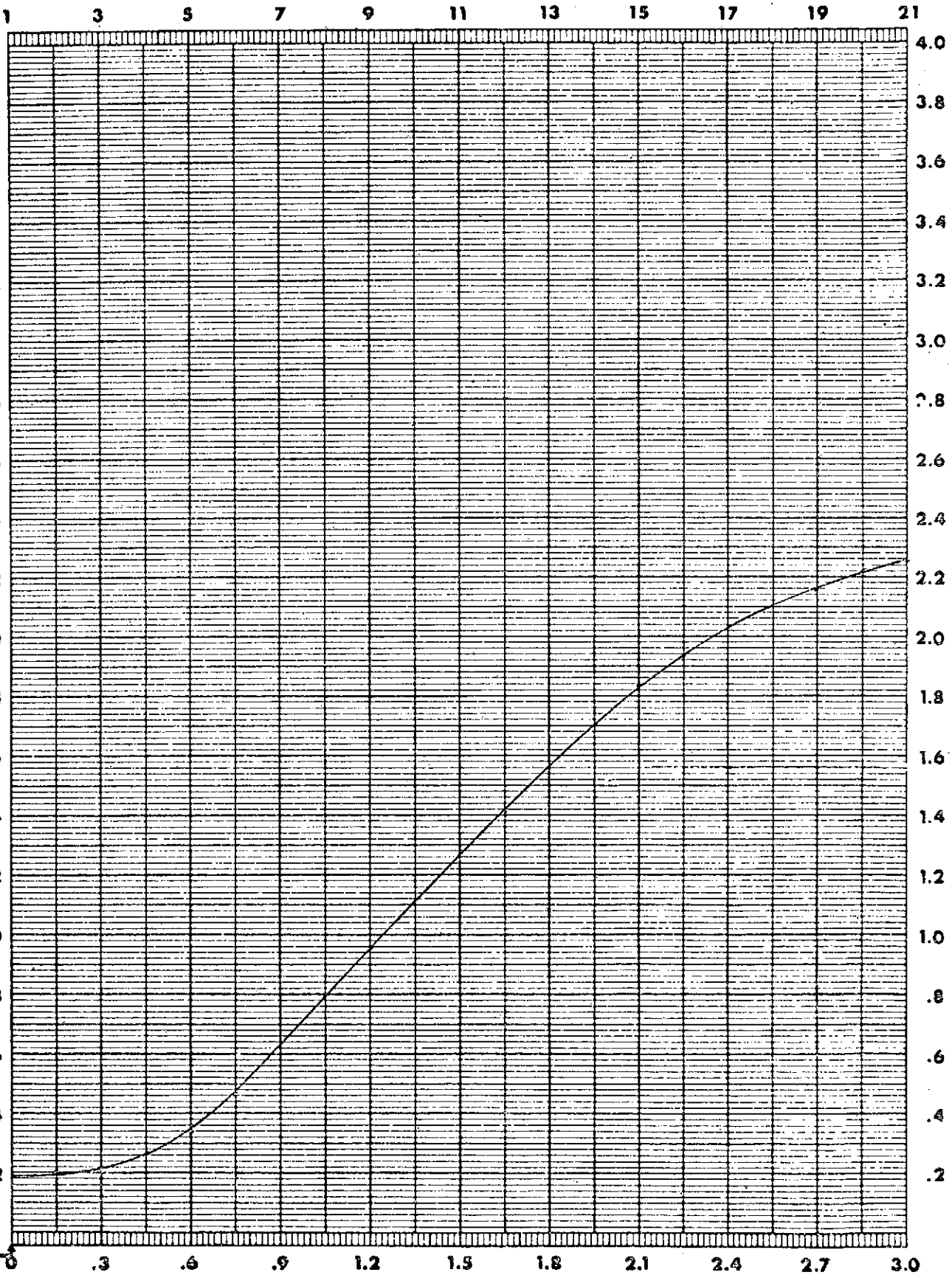

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE 15 JUN 72 CONTROL # C-22 102° Prelim 100° TASK HT-59 PREPARED BY JT

FILM 2415 EMULSION # _____ MFG _____ EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER E-6	PROCESSOR 1411	INSTRUMENT _____	SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY AERO-NEG	TYPE _____	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.0 FPM	APERTURE SIZE _____ MM	GAMMA _____
FILTER _____	TEMP °F _____ TIME _____	FILTER STATUS M	BASE + FOG _____

CHEMICAL ANALYSIS

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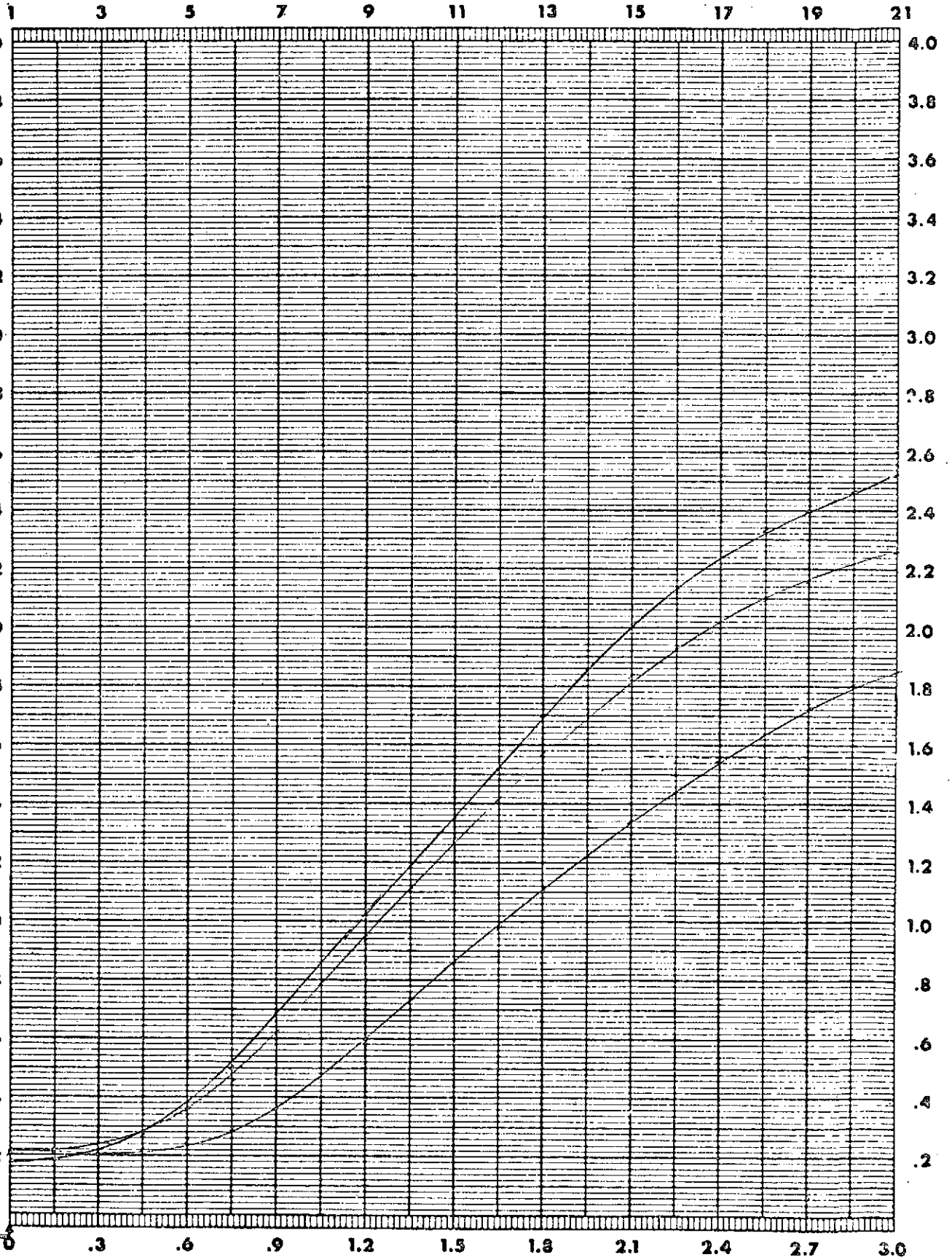

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE 10 JUN 72 CONTROL # C-22 10.2° Pack 10.0° TASK MT-59 PREPARED BY [illegible]

FILM 2445 EMULSION # _____ MFG _____ EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER I-B	PROCESSOR 1411	INSTRUMENT _____ SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY HERO-NEG	TYPE _____ D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE _____ MM GAMMA _____
FILTER _____	TEMP °F _____ TIME _____	FILTER VISUAL BASE + FOG _____

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

KB_r

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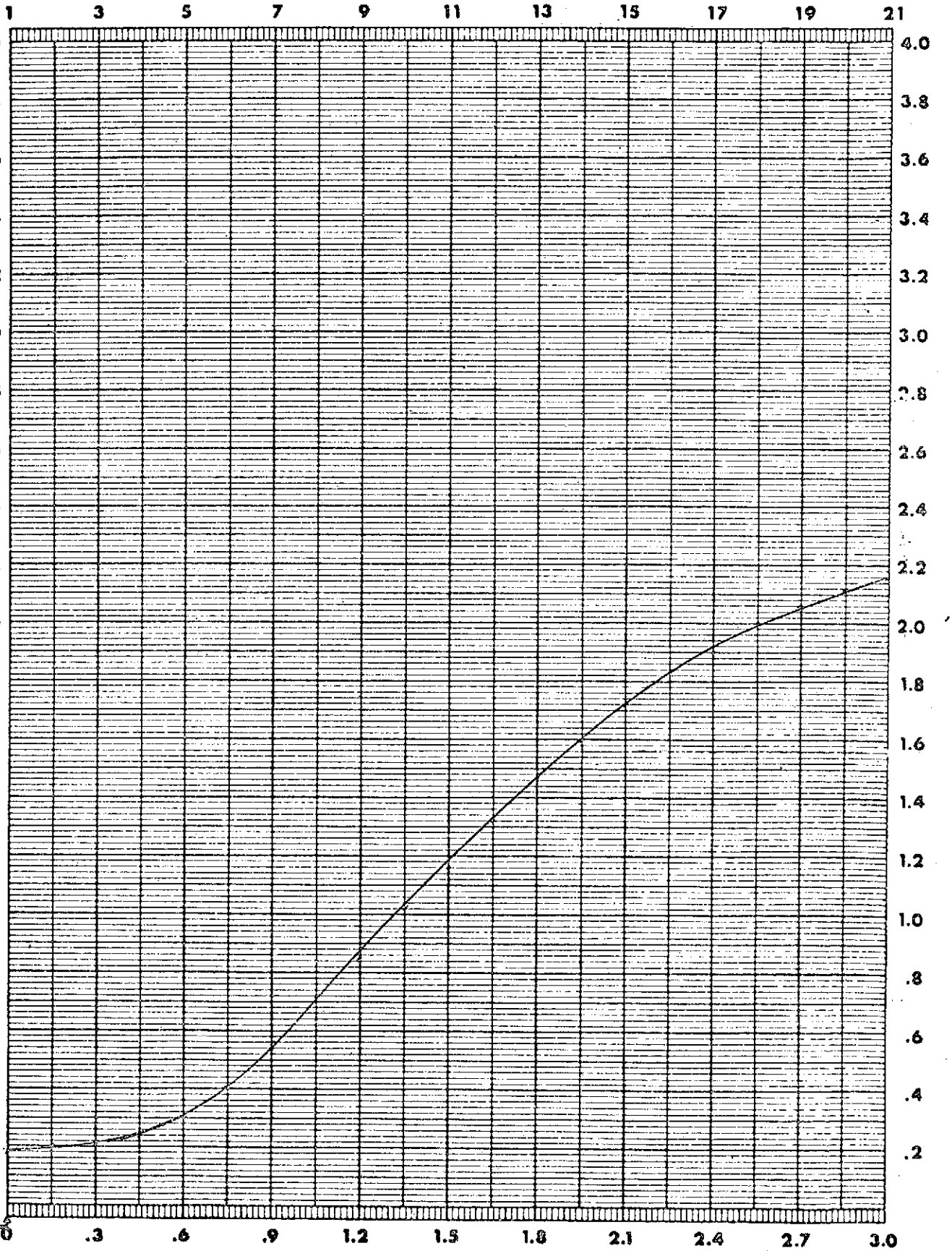

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE 25 Jan 72 CONTROL # J-22 102 Push 100° TASK HT-59 PREPARED BY JT

FILM 2445 EMULSION # _____ MFG _____ EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER I-B	PROCESSOR 1411	INSTRUMENT _____ SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY AERO NEG	TYPE _____ D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE _____ MM GAMMA _____
FILTER _____	TEMP °F _____ TIME _____	FILTER STATUS M BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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_____ TRP

_____ KB_r

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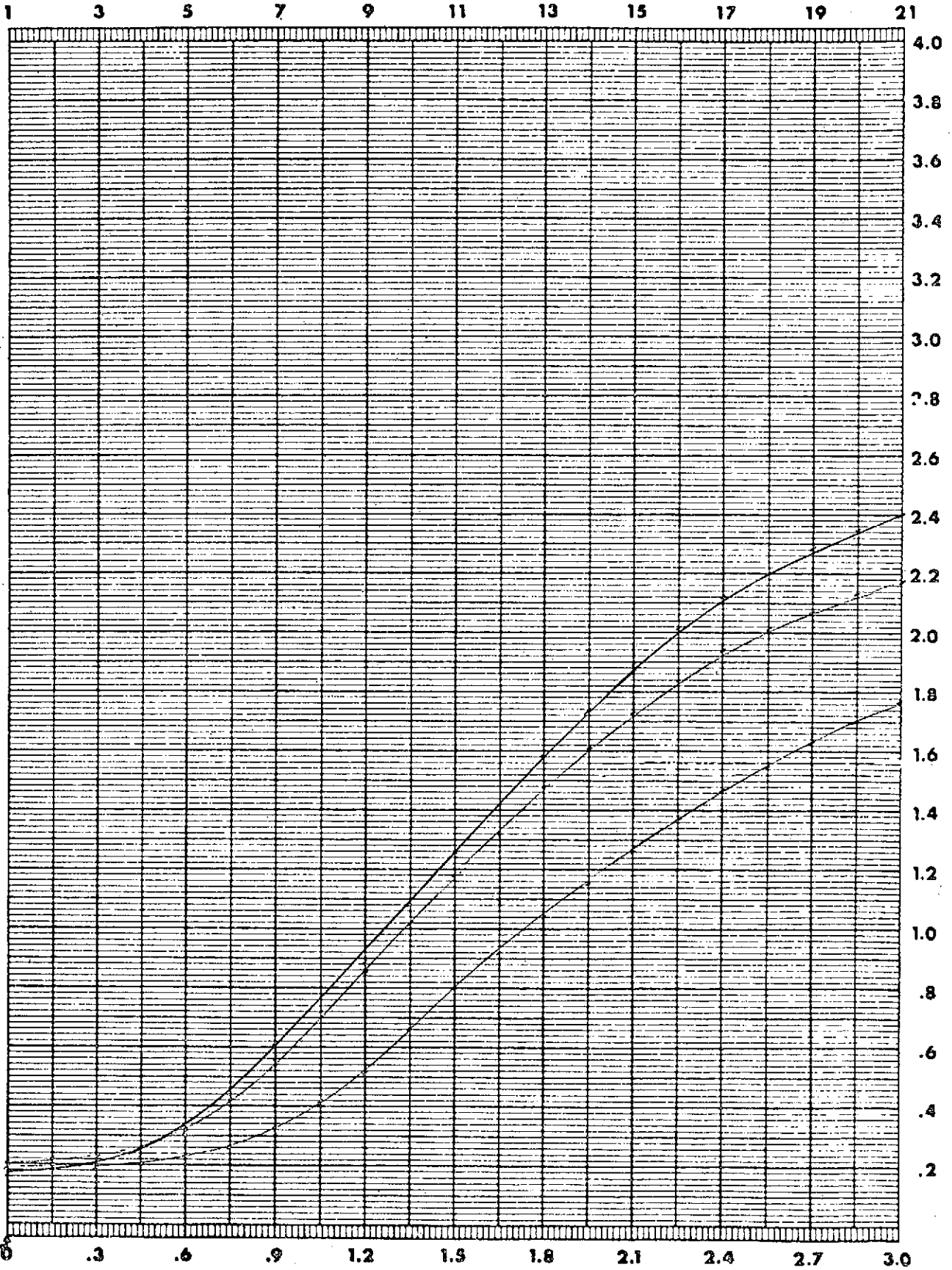

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

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413

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( ) _____
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203	D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM	GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual	BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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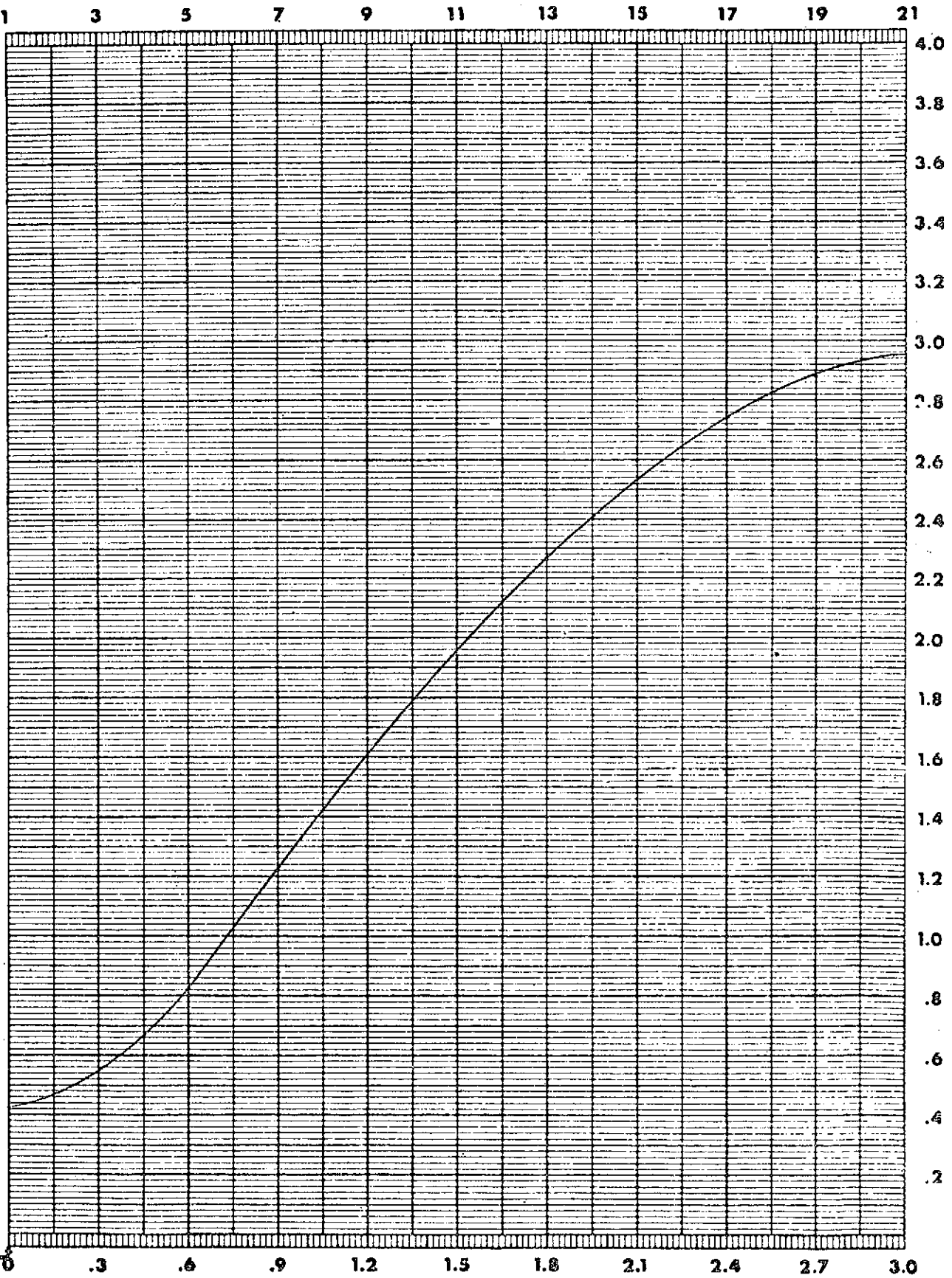

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 779 257/77

DATE June 72 CONTROL # 0-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

_____ TA

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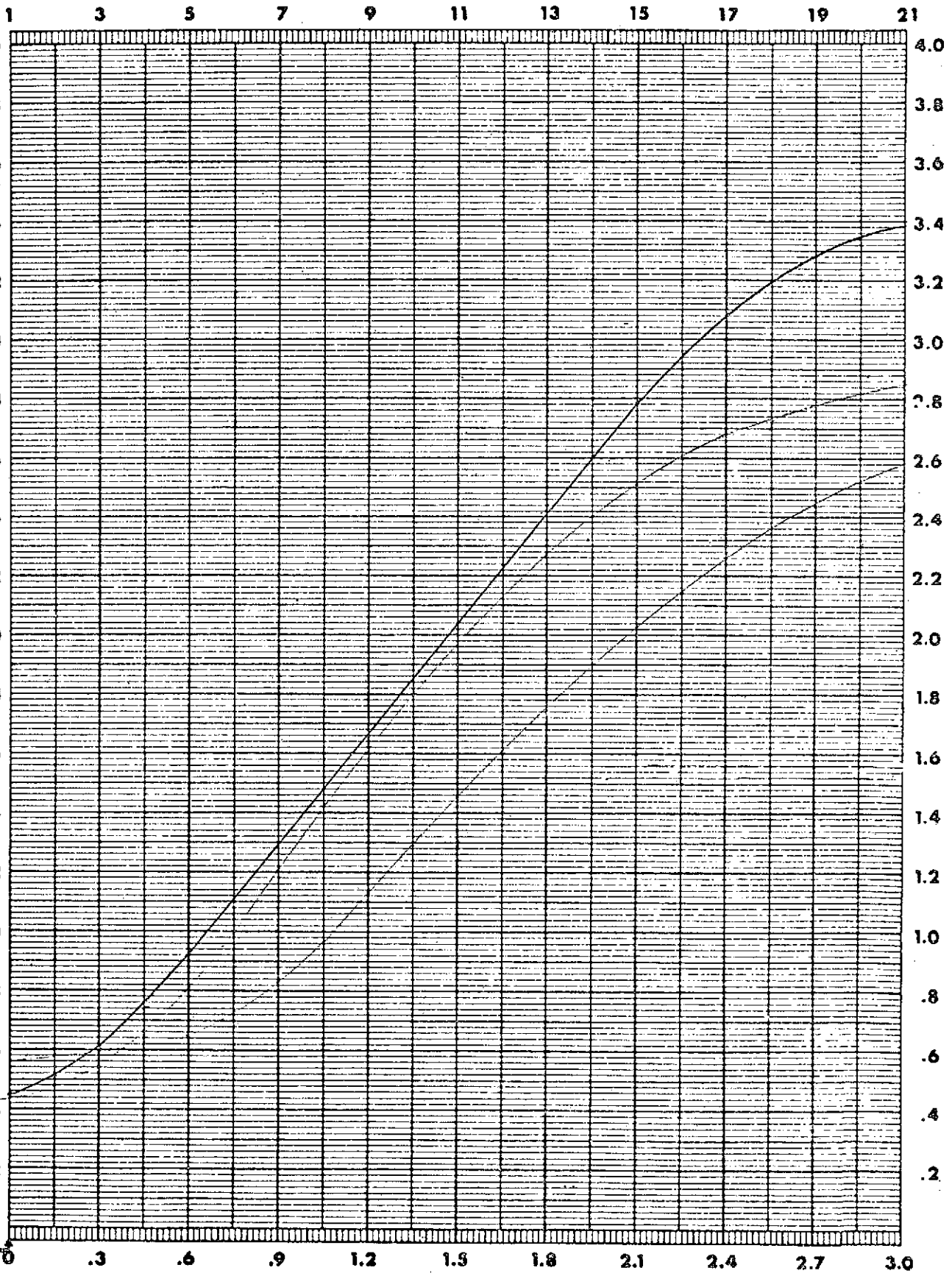

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

14

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5.5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

KB_r

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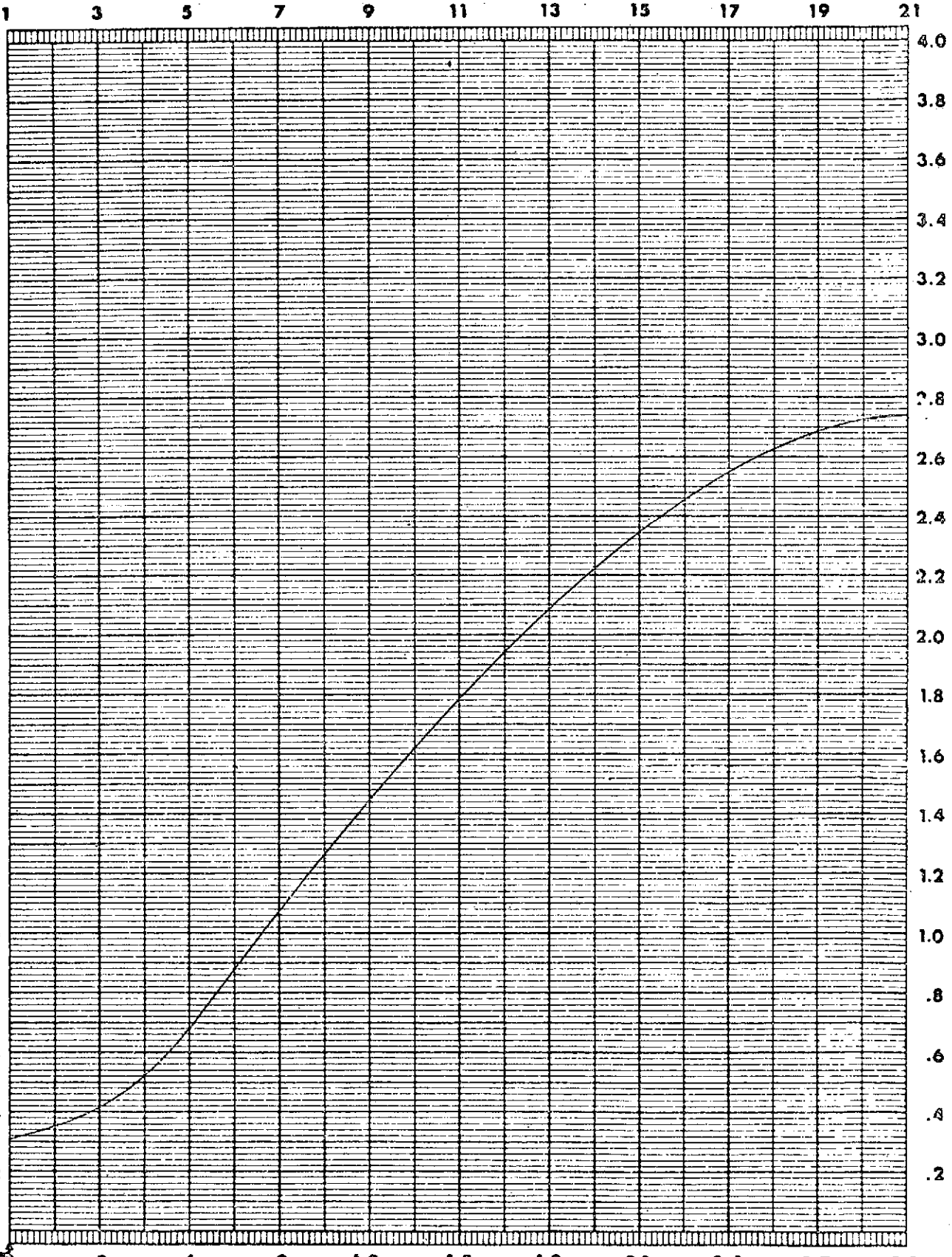

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

#14

DATE June 72 CONTROL # 0-22 104° Preh. 190° TASK HT-59 PREPARED BY E. A.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY	
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth	SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203	D-MAX
TIME SEC.	SPEED TANKS 5.5 FPM	APERTURE SIZE 4 MM	GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M	BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

KBr

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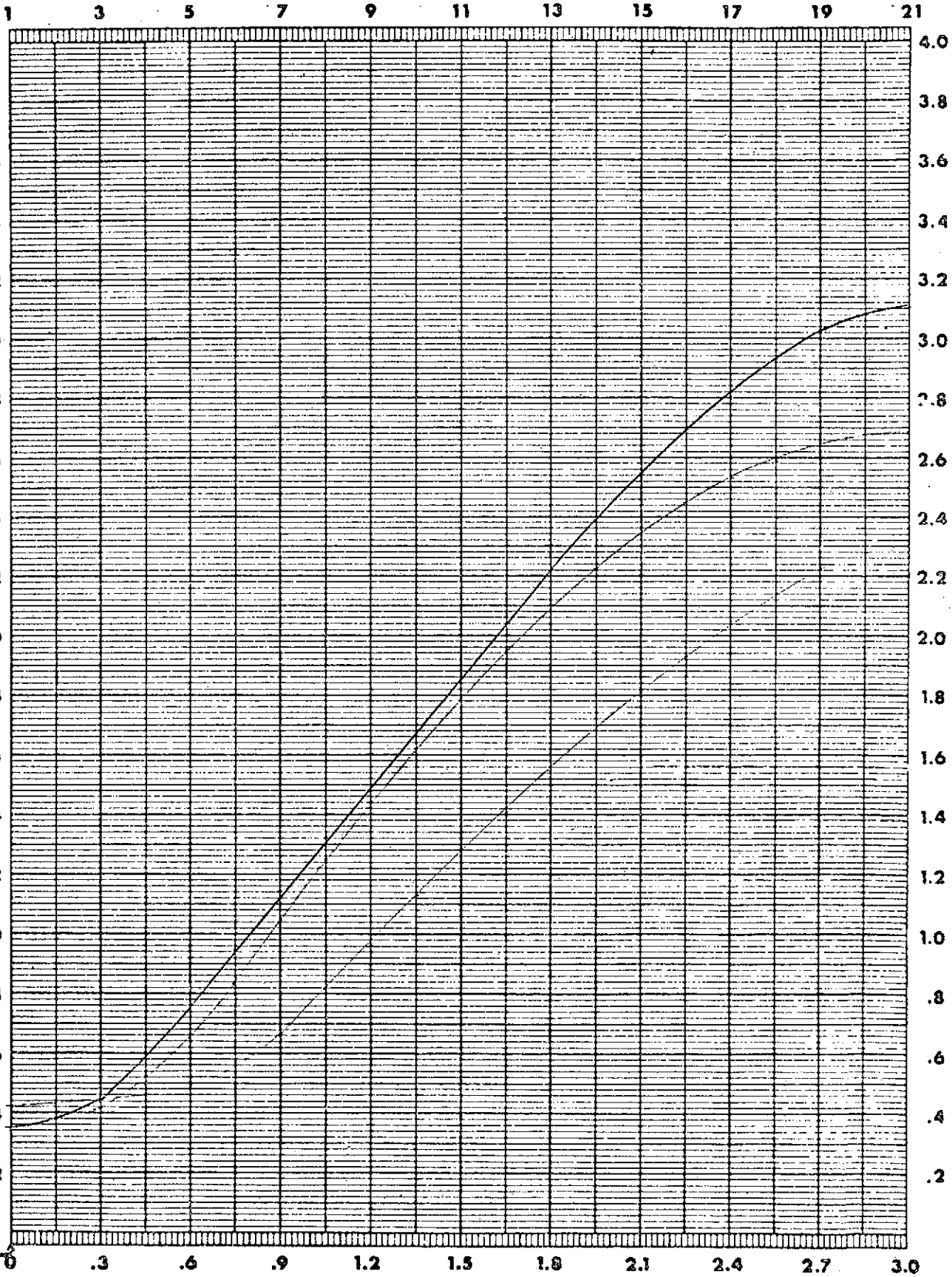

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

#15

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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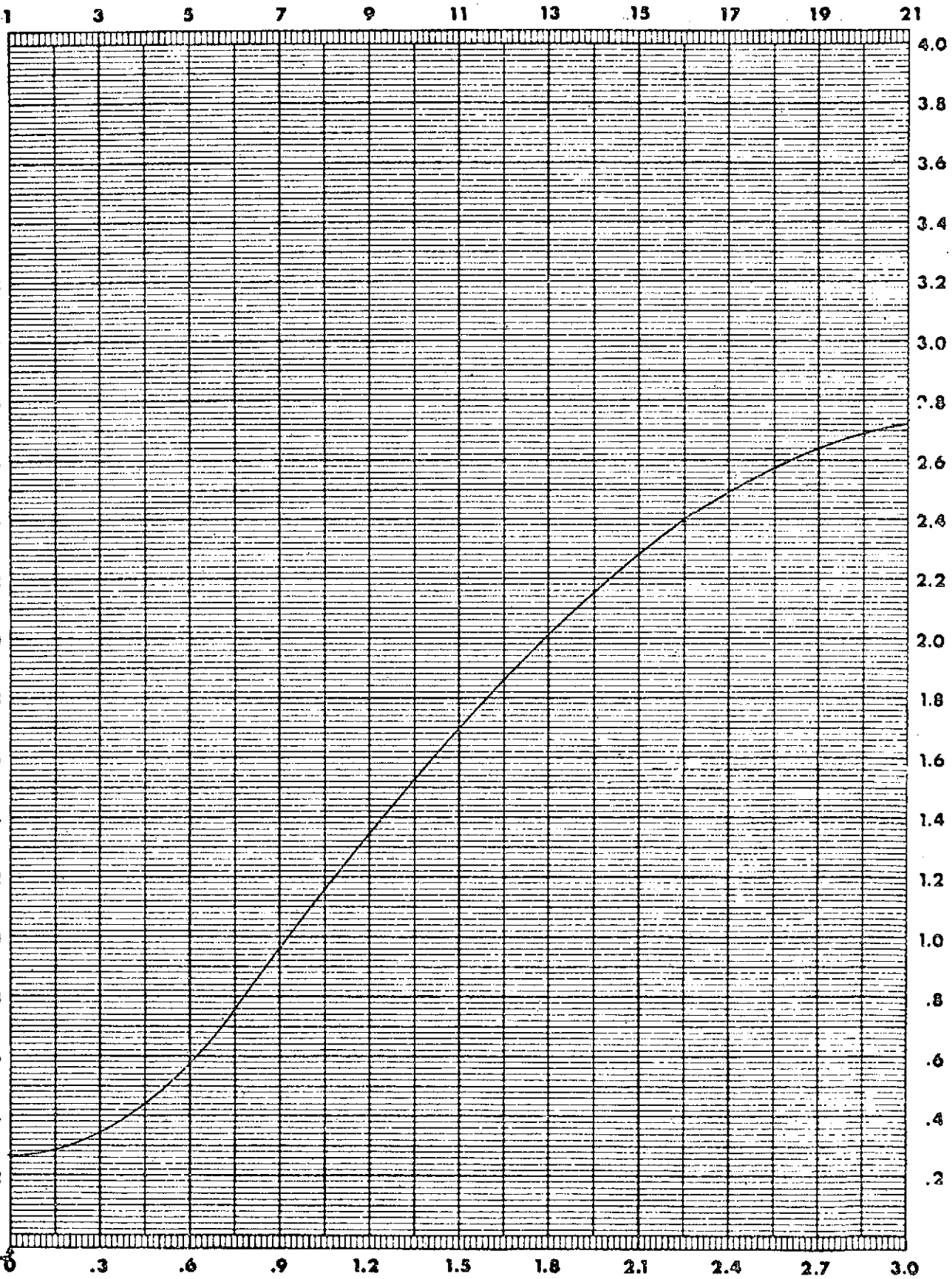

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

15

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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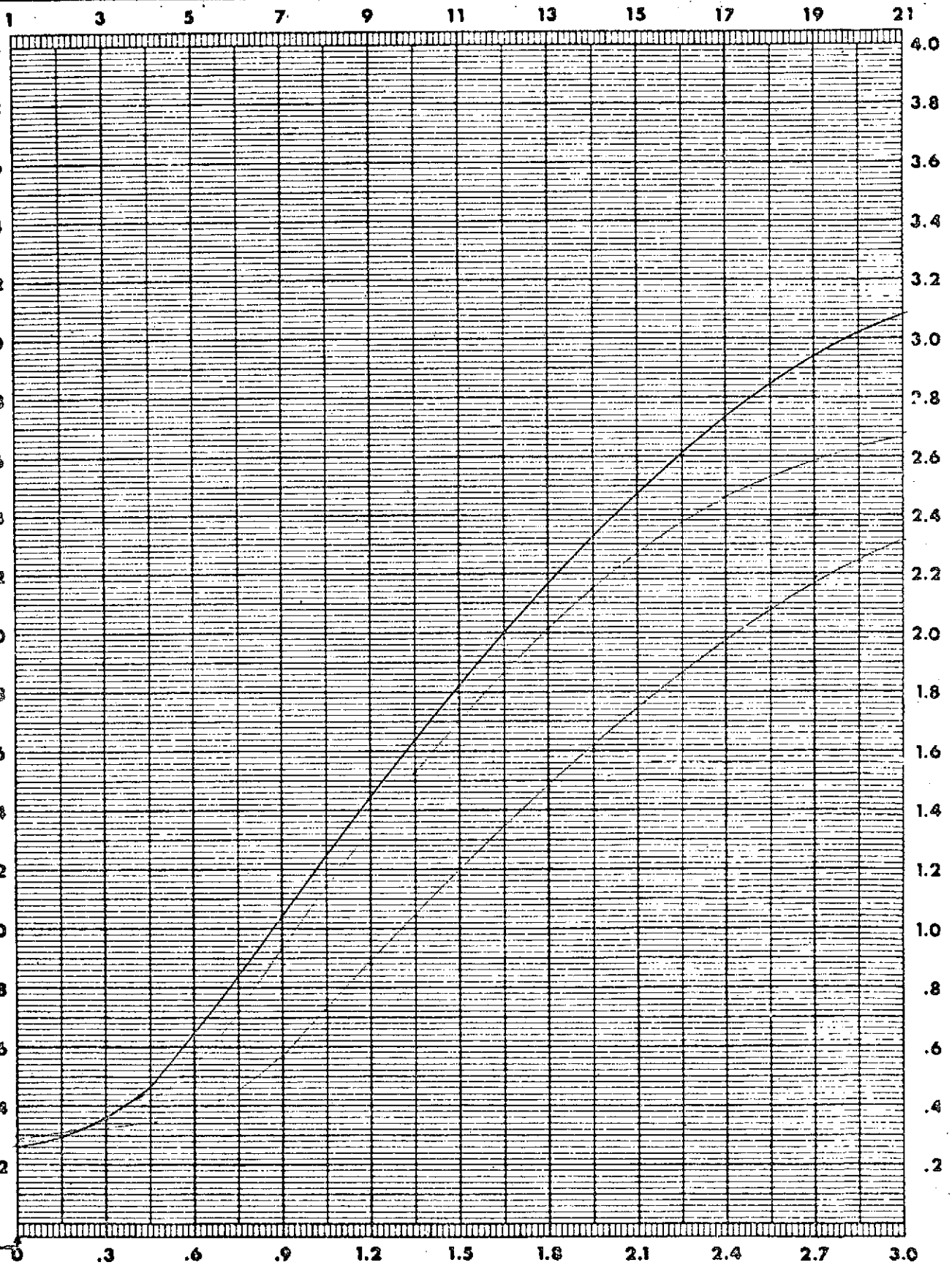

Technicolor

ABSOLUTE LOG E AT R.L.E. 0 -10

T71-21

C-22 104°

DATE June '72 CONTROL # Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-3	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 6.4 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

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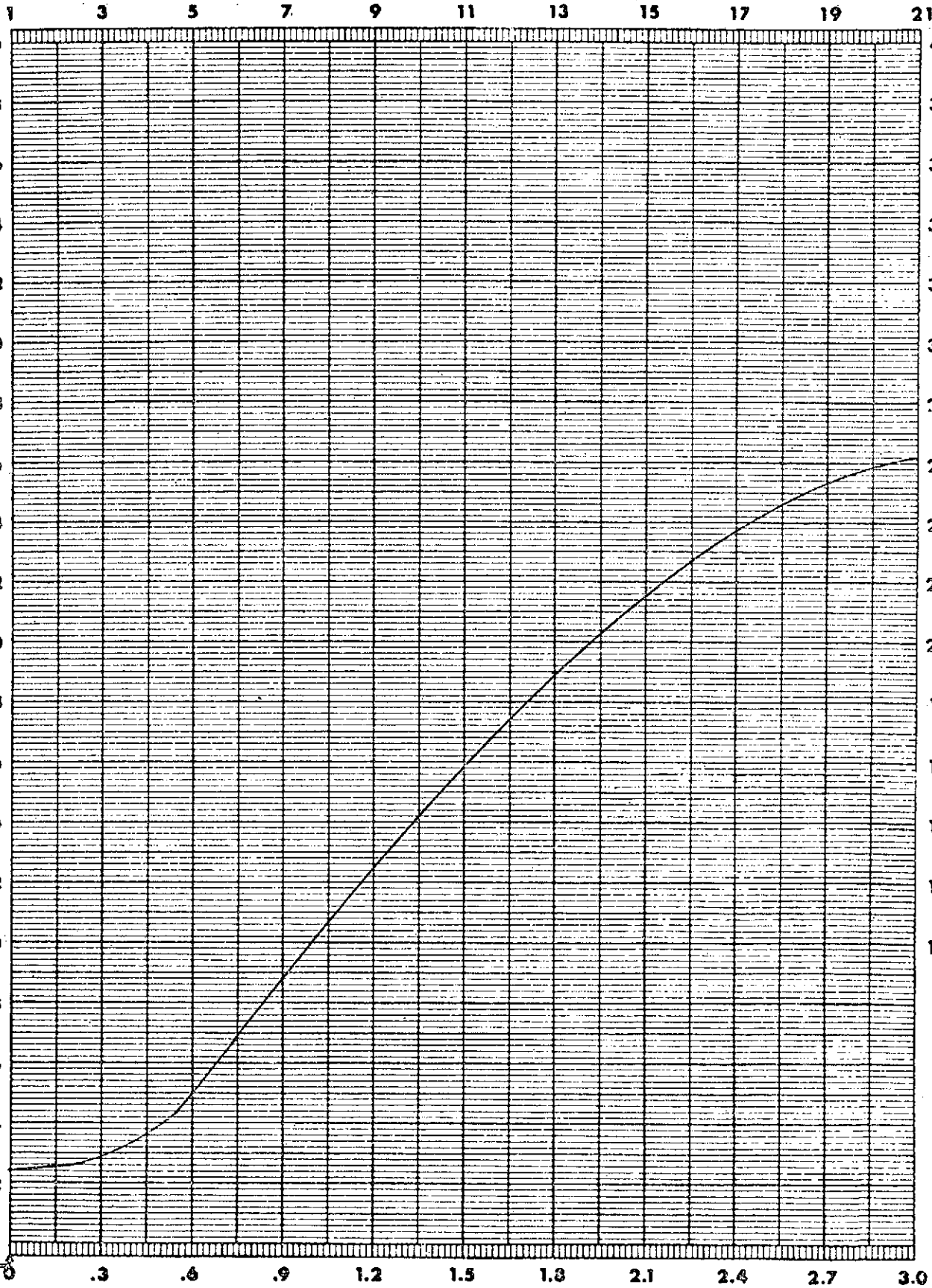

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 6.4 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

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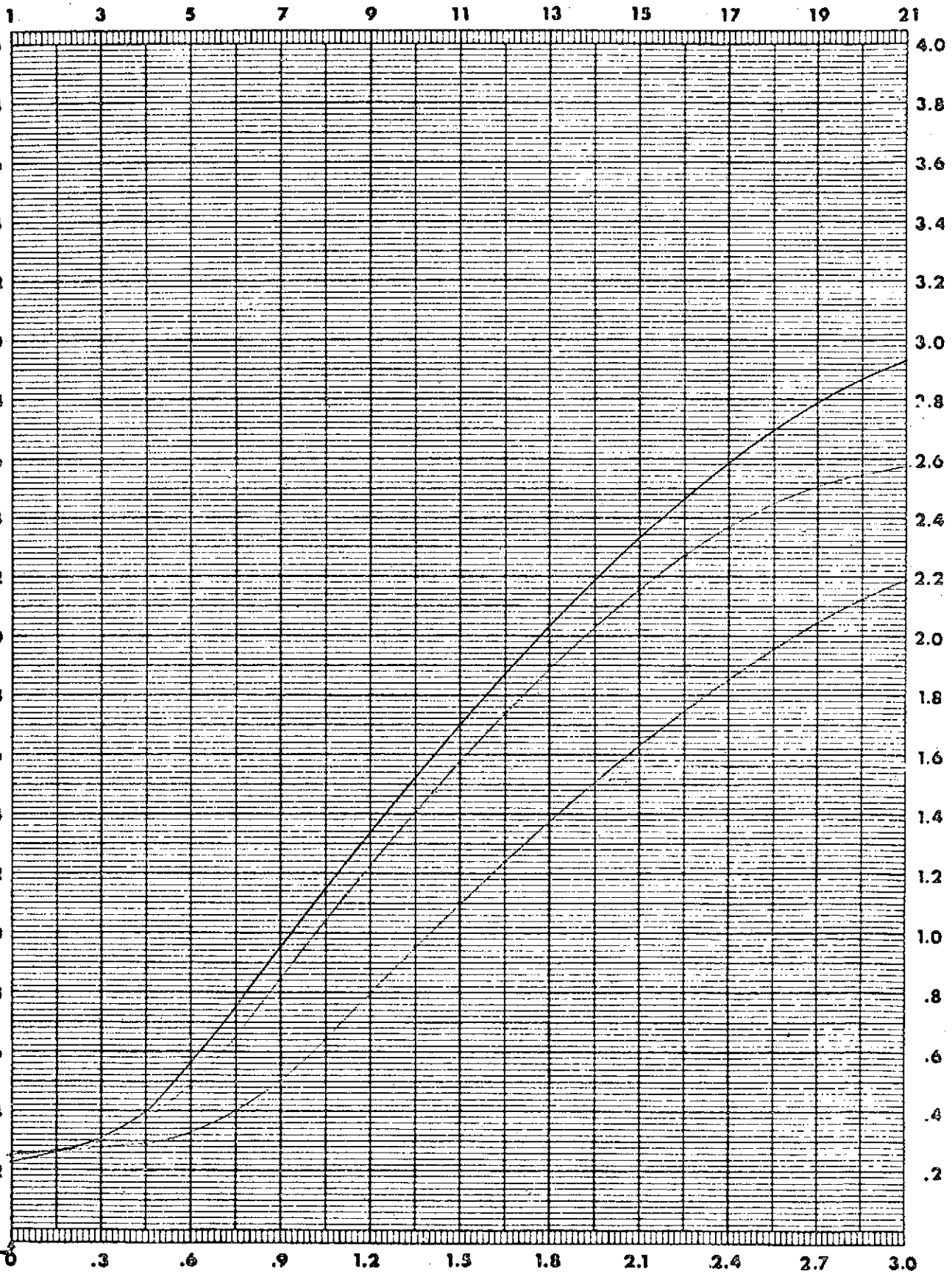

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 7 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

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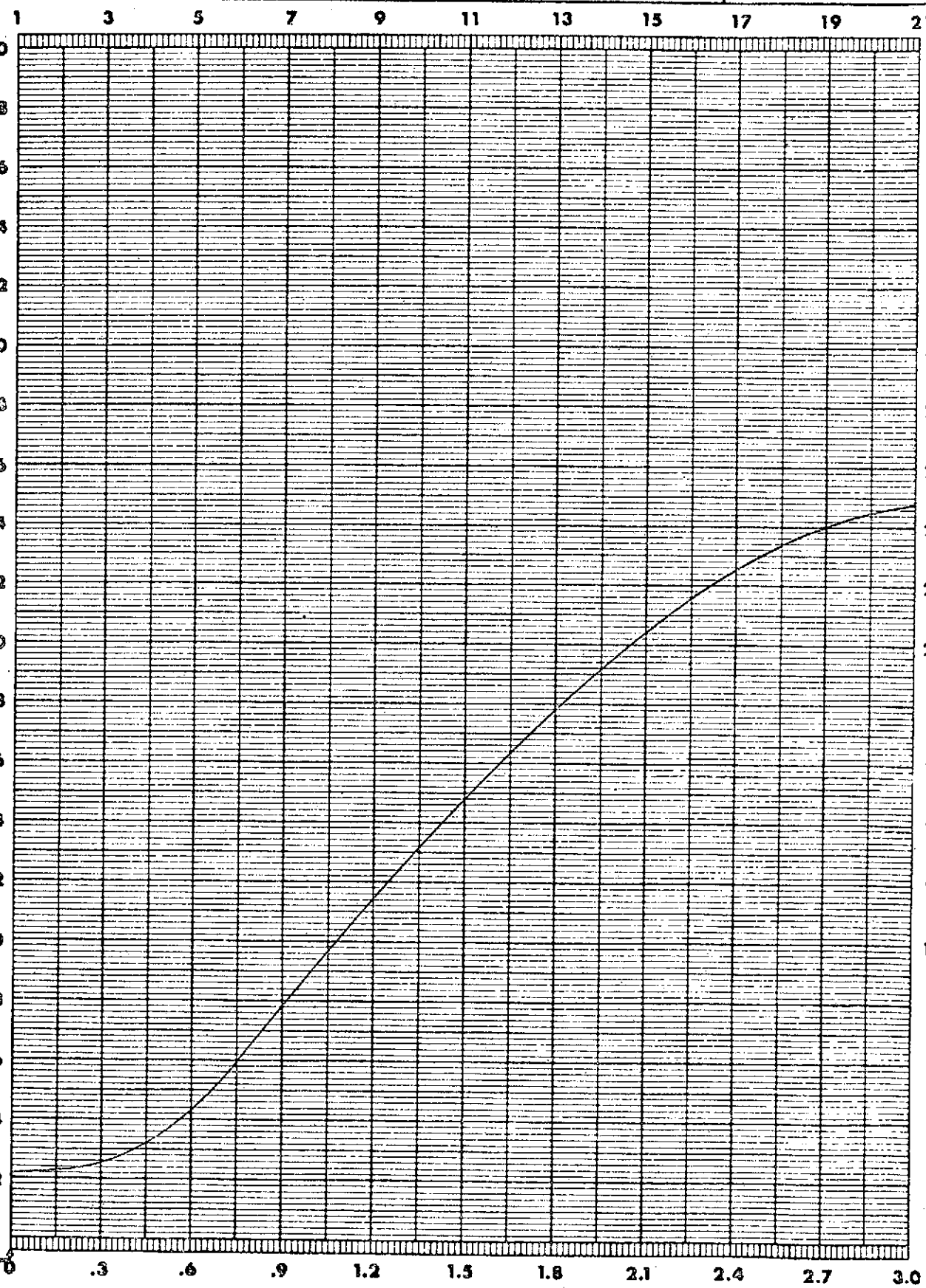

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

U.S. GOVERNMENT PRINTING OFFICE: 1972 779 257/77

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA		PROCESSING DATA		DENSITOMETRY			
SENSITOMETER	1-B	PROCESSOR	1411	INSTRUMENT	Macbeth	SPEED ( )	
ILLUMINANT	2850 °K	CHEMISTRY		TYPE	TD 203	D-MAX	
TIME	SEC.	SPEED	TANKS 7 FPM	APERTURE SIZE	4 MM	GAMMA	
FILTER	5500 & 2A	TEMP °F	TIME	FILTER	Status M	BASE + FOG	

CHEMICAL ANALYSIS

_____ SP GR

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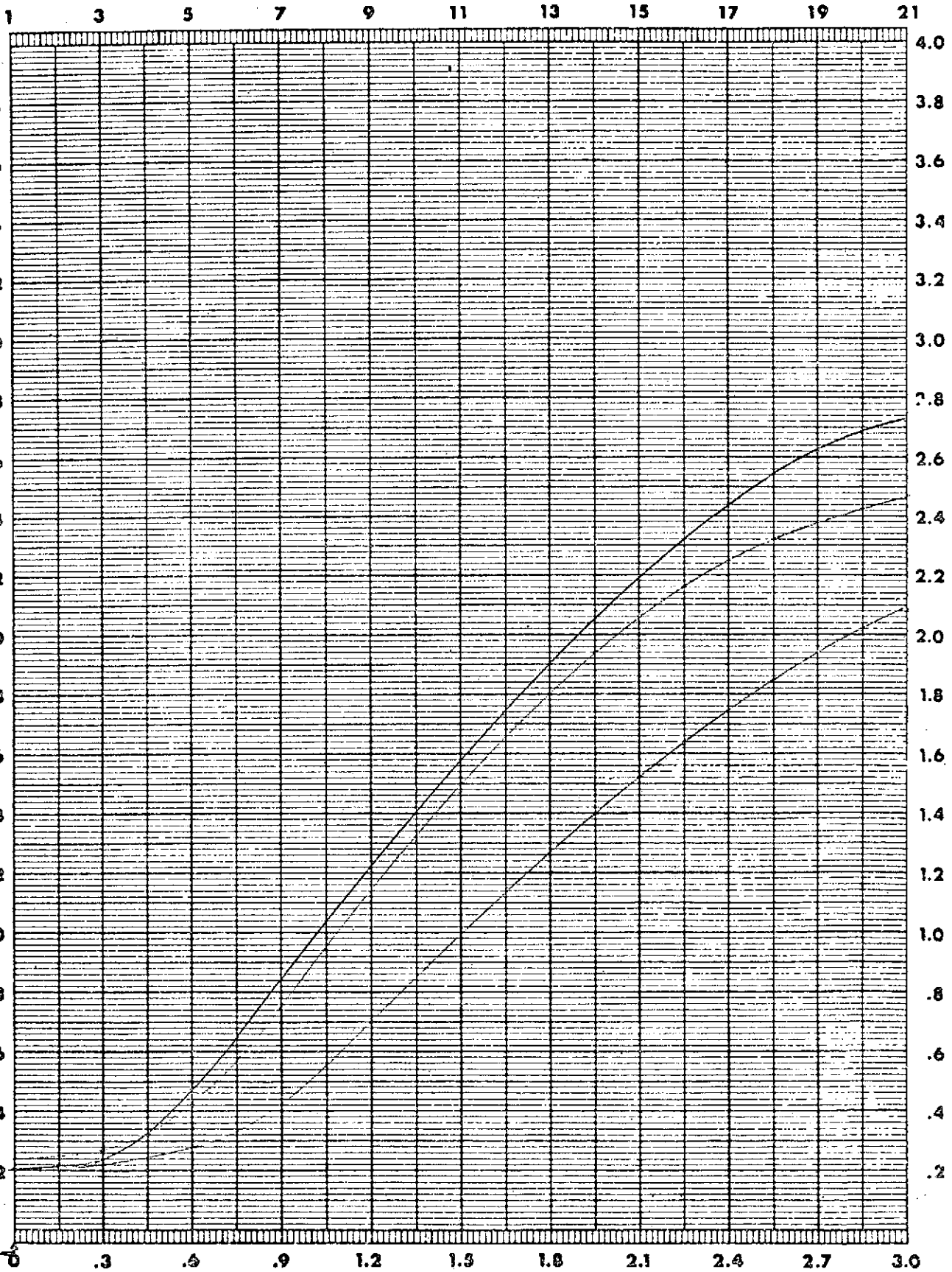

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ABSOLUTE LOG E AT R.L.E. 0 -10

T71-21

DATE June 72 CONTROL # C-22 104° Preh. 100° TASK HT-59 PREPARED BY E.G.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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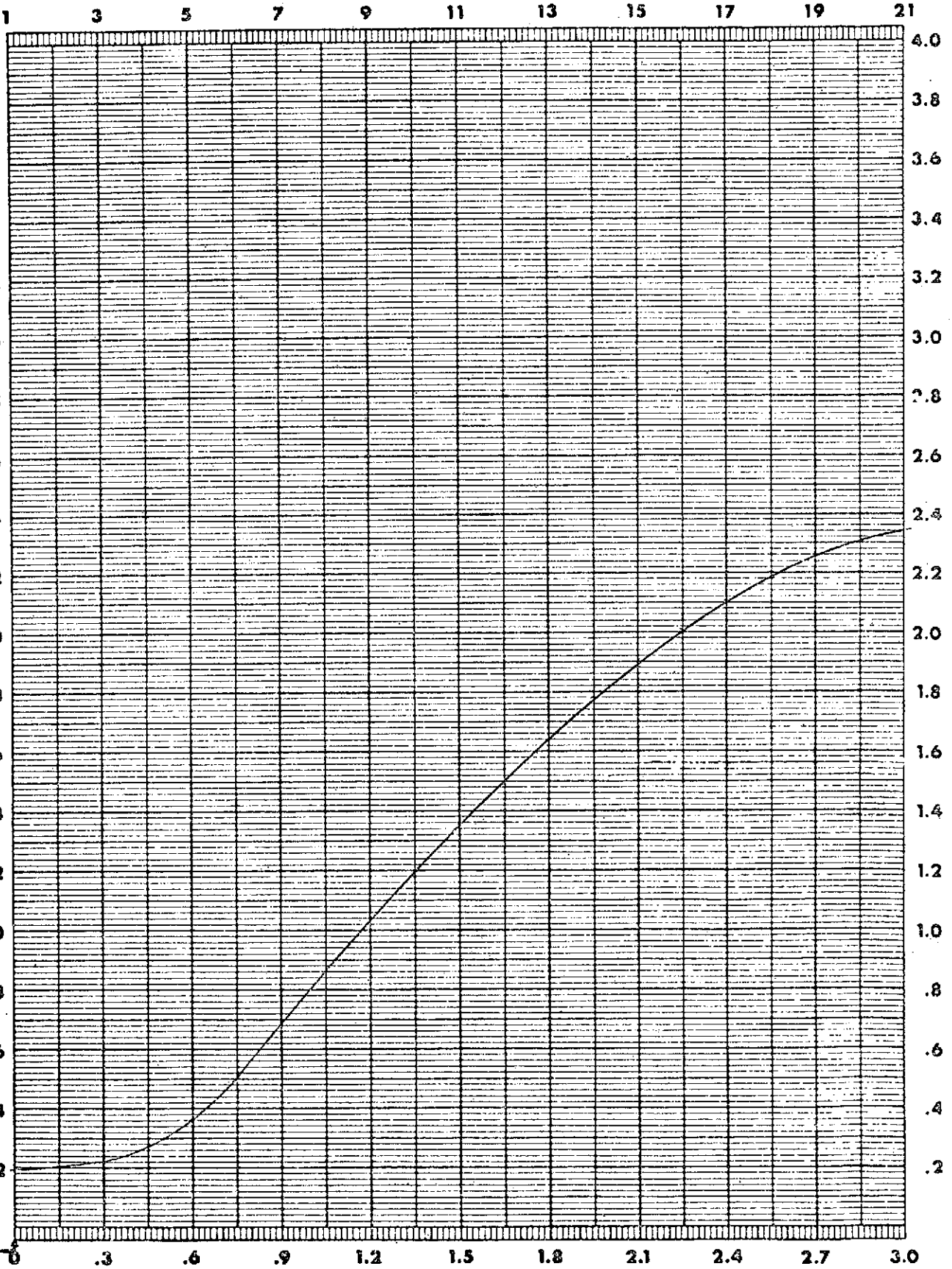

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ABSOLUTE LOG E AT R.L.E. - 0

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T71-21

C-22 104°

DATE June 72 CONTROL # Preh. 100° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX _____
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM / GAMMA _____
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M / BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

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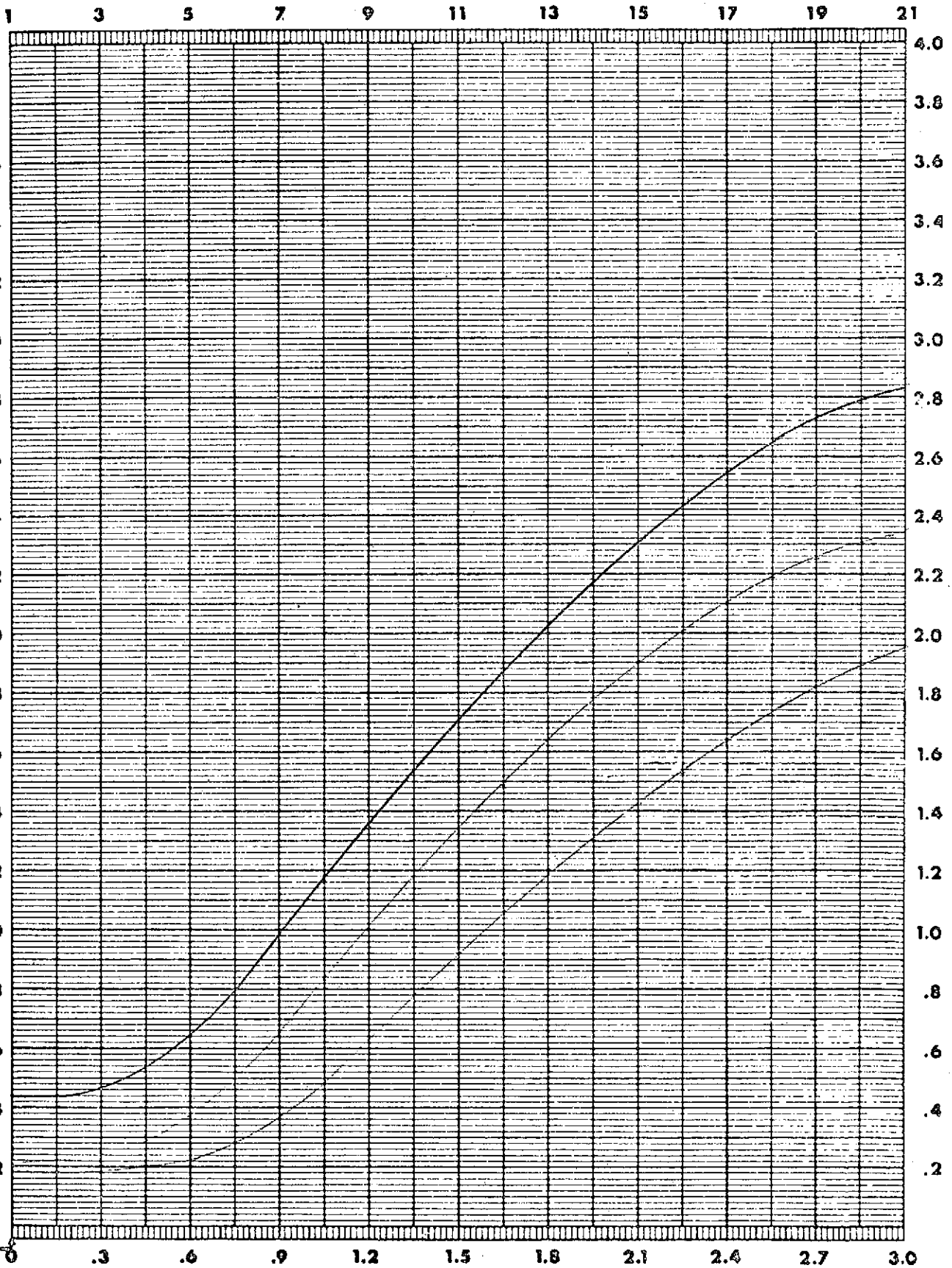

Technicolor

ABSOLUTE LOG E AT R.L.E. = 0 -10

T71-21

DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY	TYPE TD 203 / D-MAX
TIME SEC.	SPEED TANKS 5 FPM	APERTURE SIZE 4 MM / GAMMA
FILTER 5500 & 2A	TEMP °F TIME	FILTER Visual / BASE + FOG

CHEMICAL ANALYSIS

SP GR

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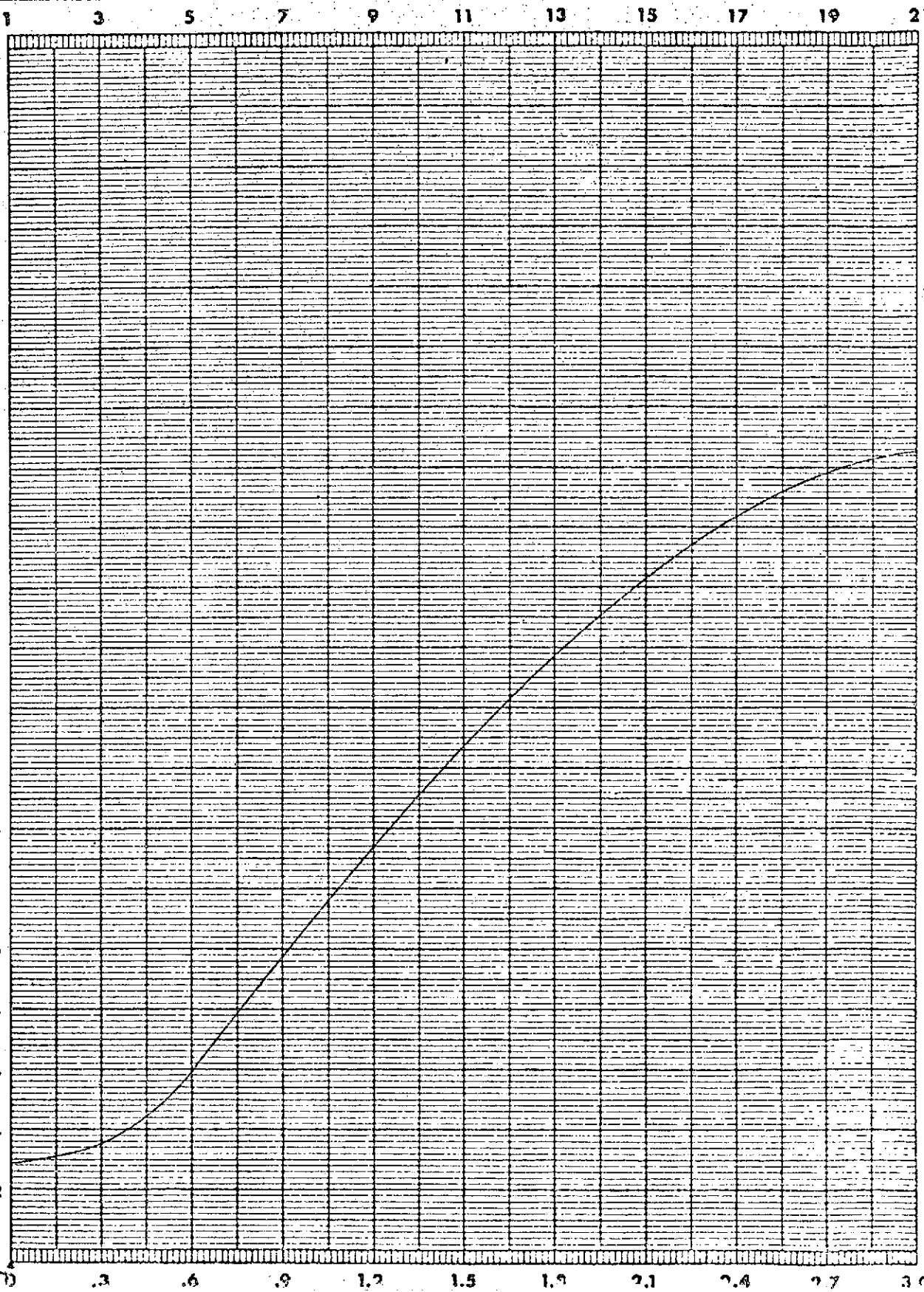

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ABSOLUTE LOG E AT R.L.E. - 0

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DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth / SPEED ( )
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203 / D-MAX
TIME _____ SEC.	SPEED _____ TANKS 5 FPM	APERTURE SIZE _____ MM / GAMMA
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M / BASE + FOG

CHEMICAL ANALYSIS

SP GR

pH

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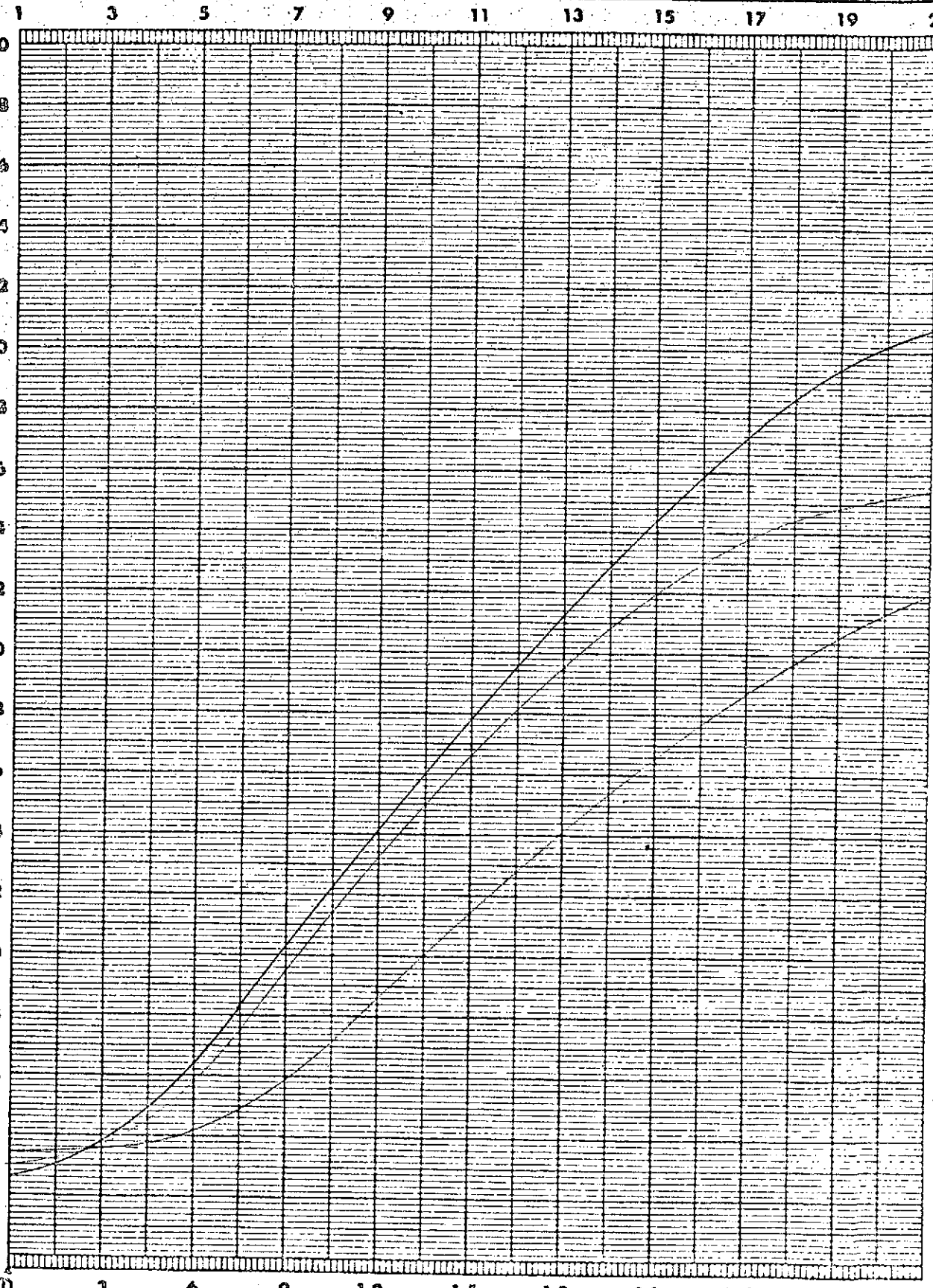

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ABSOLUTE LOG E AT R.L.E. 0 -10

771-21 U.S. GOVERNMENT PRINTING OFFICE 1973

DATE June 72 CONTROL # 0-22 1000 Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

DENSITOMETRY: SPEED ( ) _____ D-MAX _____ GAMMA _____ BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

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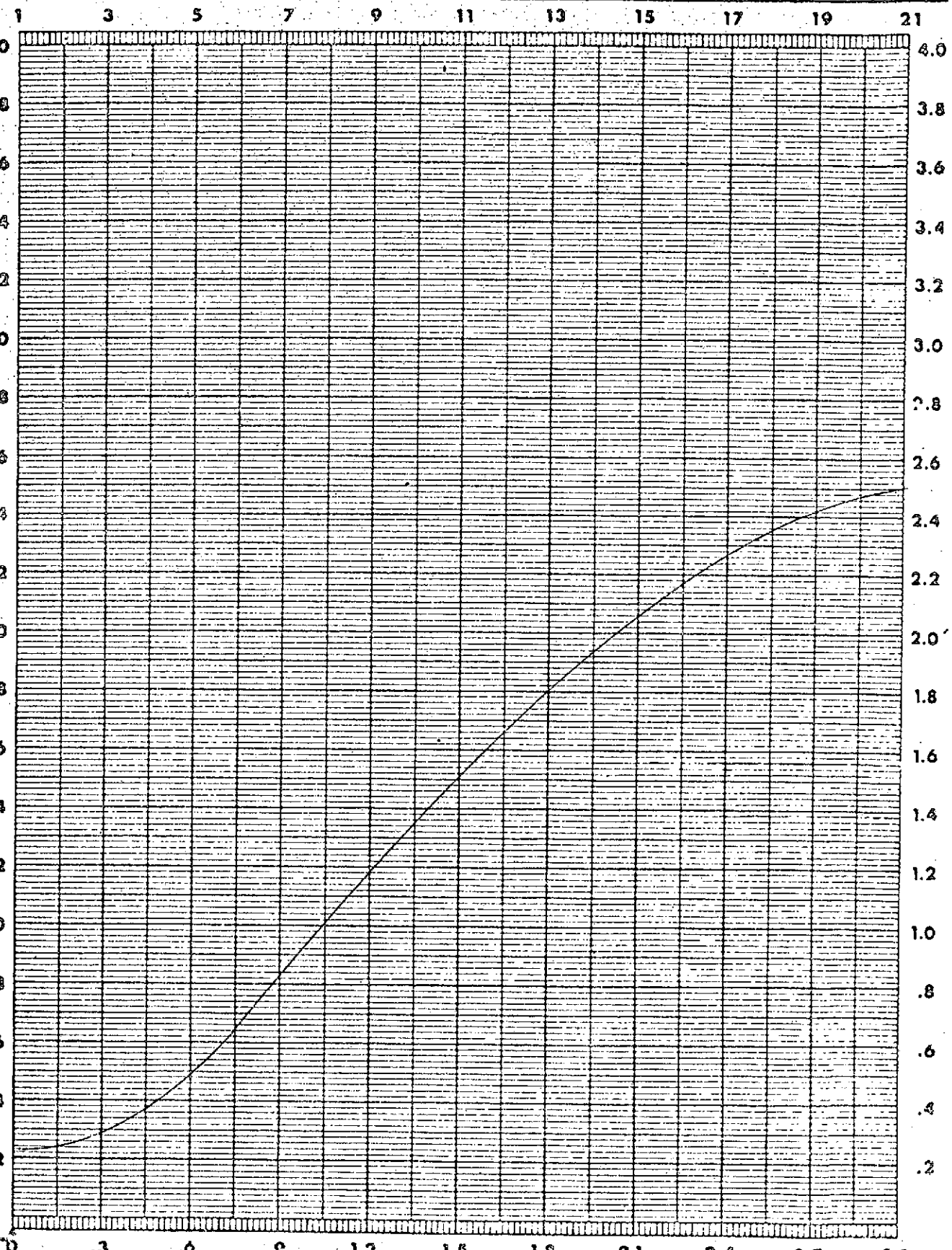

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ABSOLUTE LOG E AT R.L.E. - 0

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T71-21 ☆ U.S. GOVERNMENT PRINTING OFFICE: 1972 770 259/1

DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 5.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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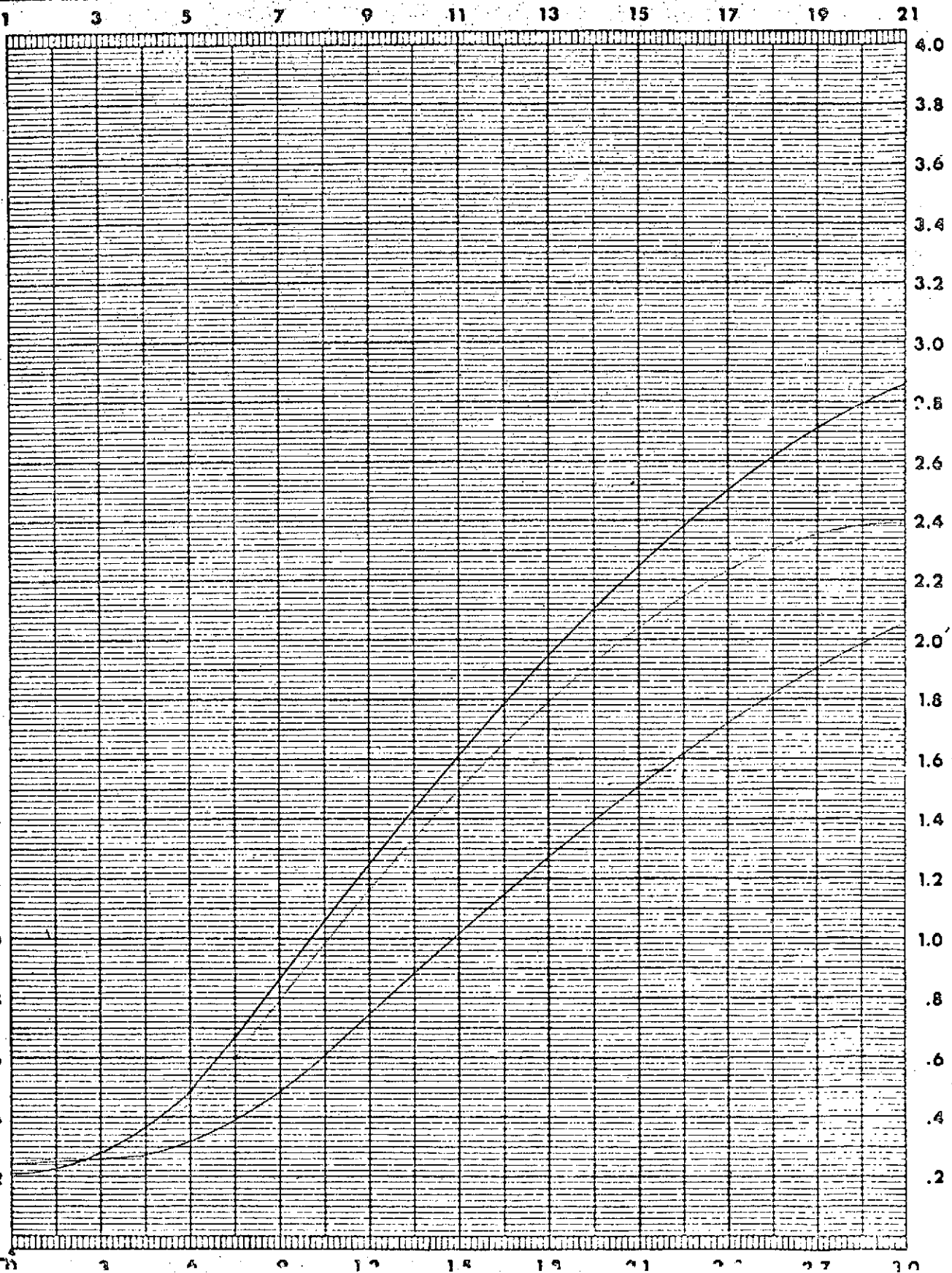

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ABSOLUTE LOG E AT R.L.E. - 0

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C-22 100°

DATE June 72 CONTROL # Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

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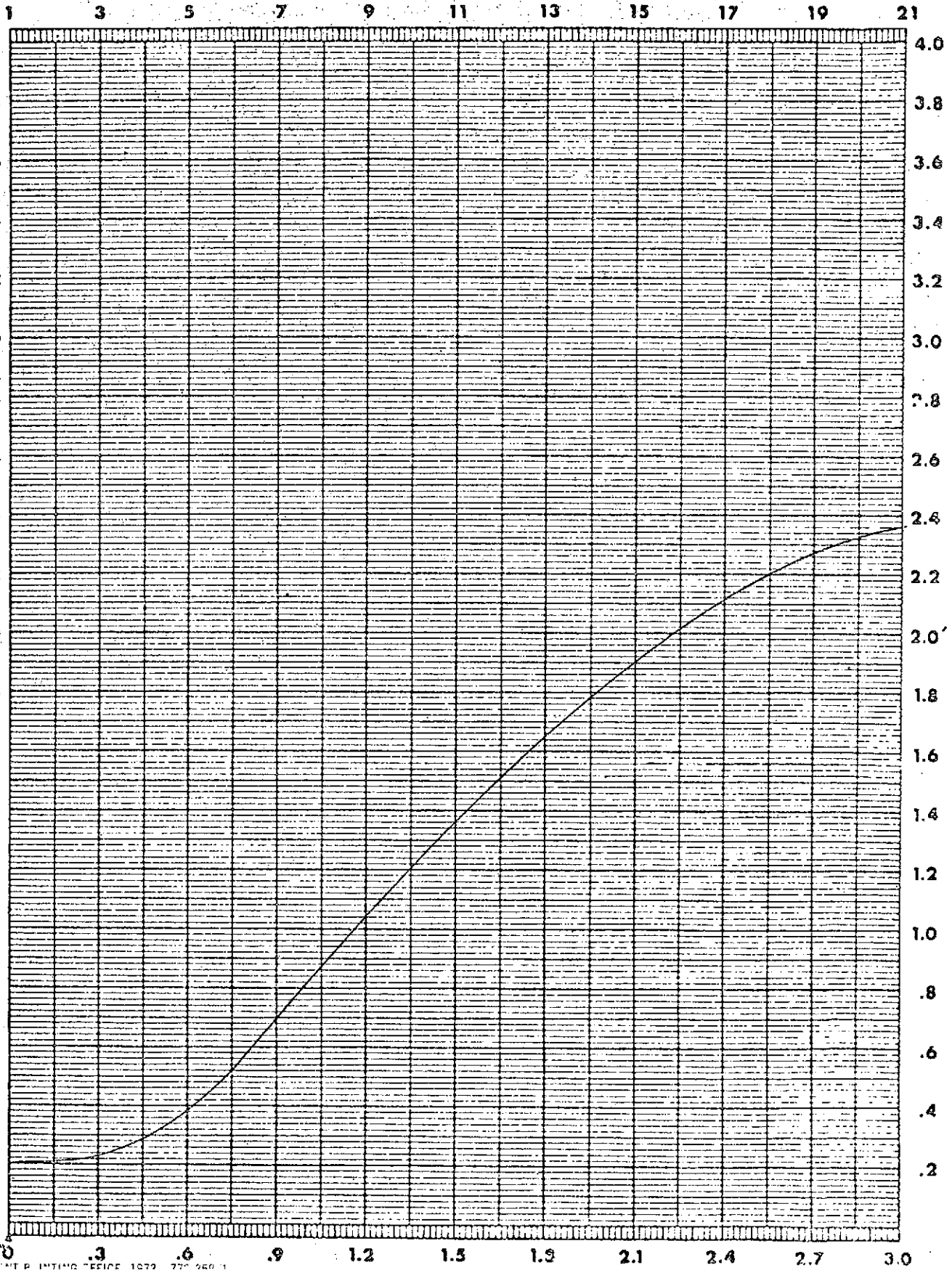

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ABSOLUTE LOG E AT R.L.E. = 0 −10

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U.S. GOVERNMENT PRINTING OFFICE: 1972 — 772-259/1

37

C-22 100°

DATE June 72 CONTROL # Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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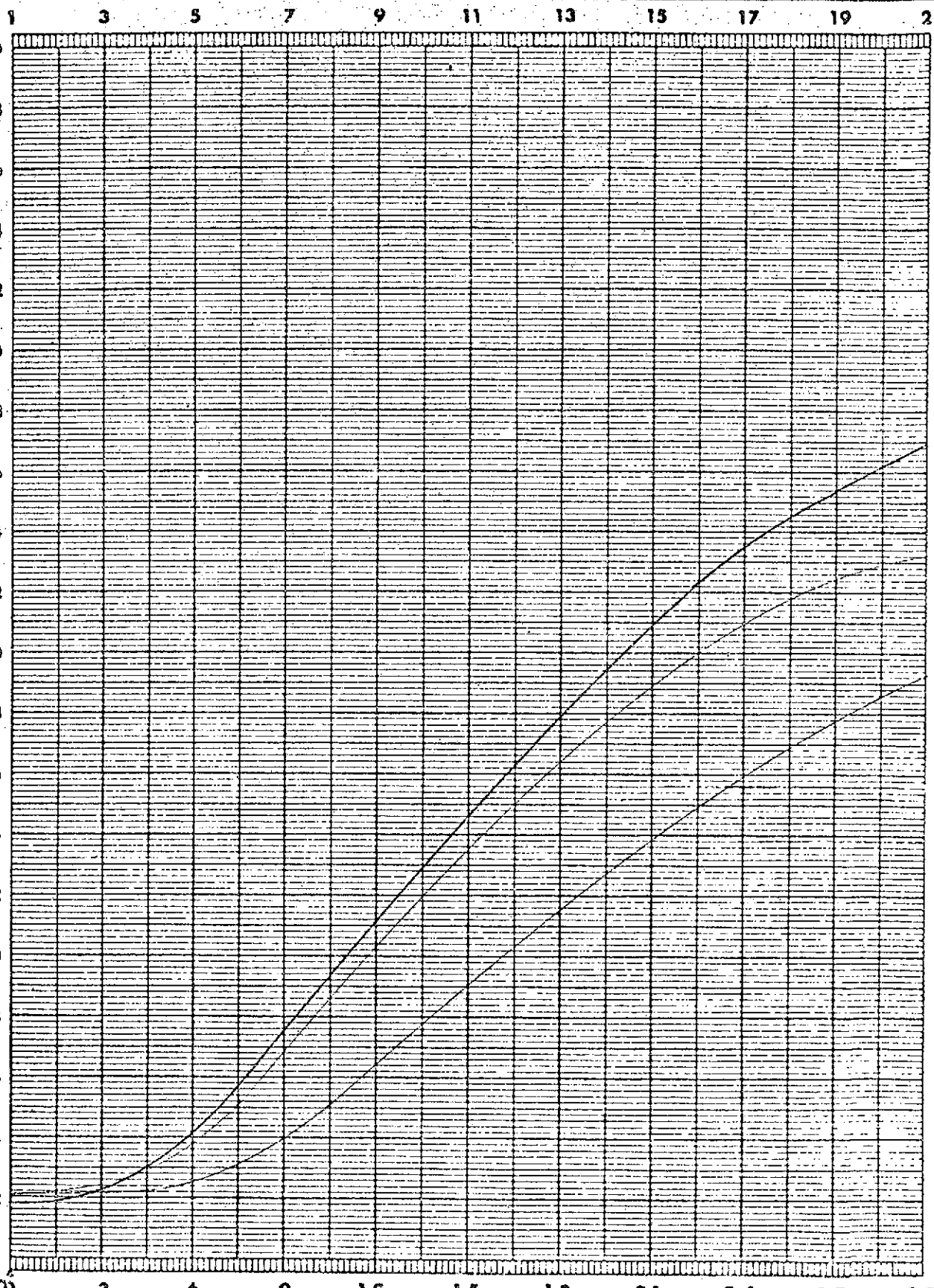

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ABSOLUTE LOG E AT R.L.E. = 0 -10

T71-21 U.S. GOVERNMENT PRINTING OFFICE: 1972 759-612/12

DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA		PROCESSING DATA		DENSITOMETRY	
SENSITOMETER	1-B	PROCESSOR	1411	INSTRUMENT	Macbeth
ILLUMINANT	2850 °K	CHEMISTRY		TYPE	TD 203
TIME	SEC.	SPEED	TANKS 6.4 FPM	APERTURE SIZE	4 MM
FILTER	5500 & 2A	TEMP °F	TIME	FILTER	Visual
				SPEED ( )	
				D-MAX	
				GAMMA	
				BASE + FOG	

CHEMICAL ANALYSIS

SP GR

pH

TA

TRP

KB_r

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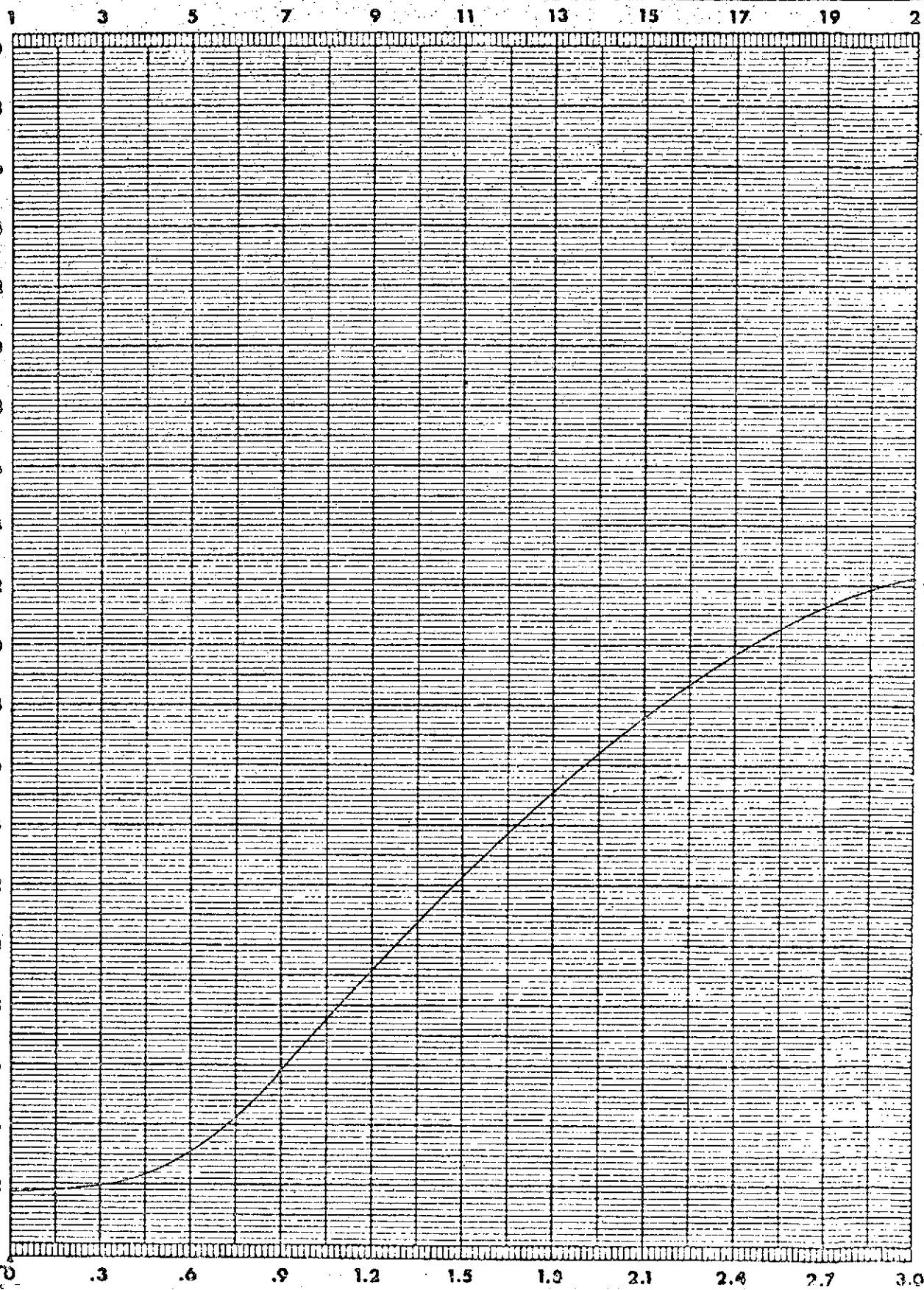

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ABSOLUTE LOG E AT R.L.E. - 0 -10

T71 21 U.S. GOVERNMENT

DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 6.4 FPM	APERTURE SIZE 4 MM
FILTER 5500&2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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_____ TRP

_____ KB_r

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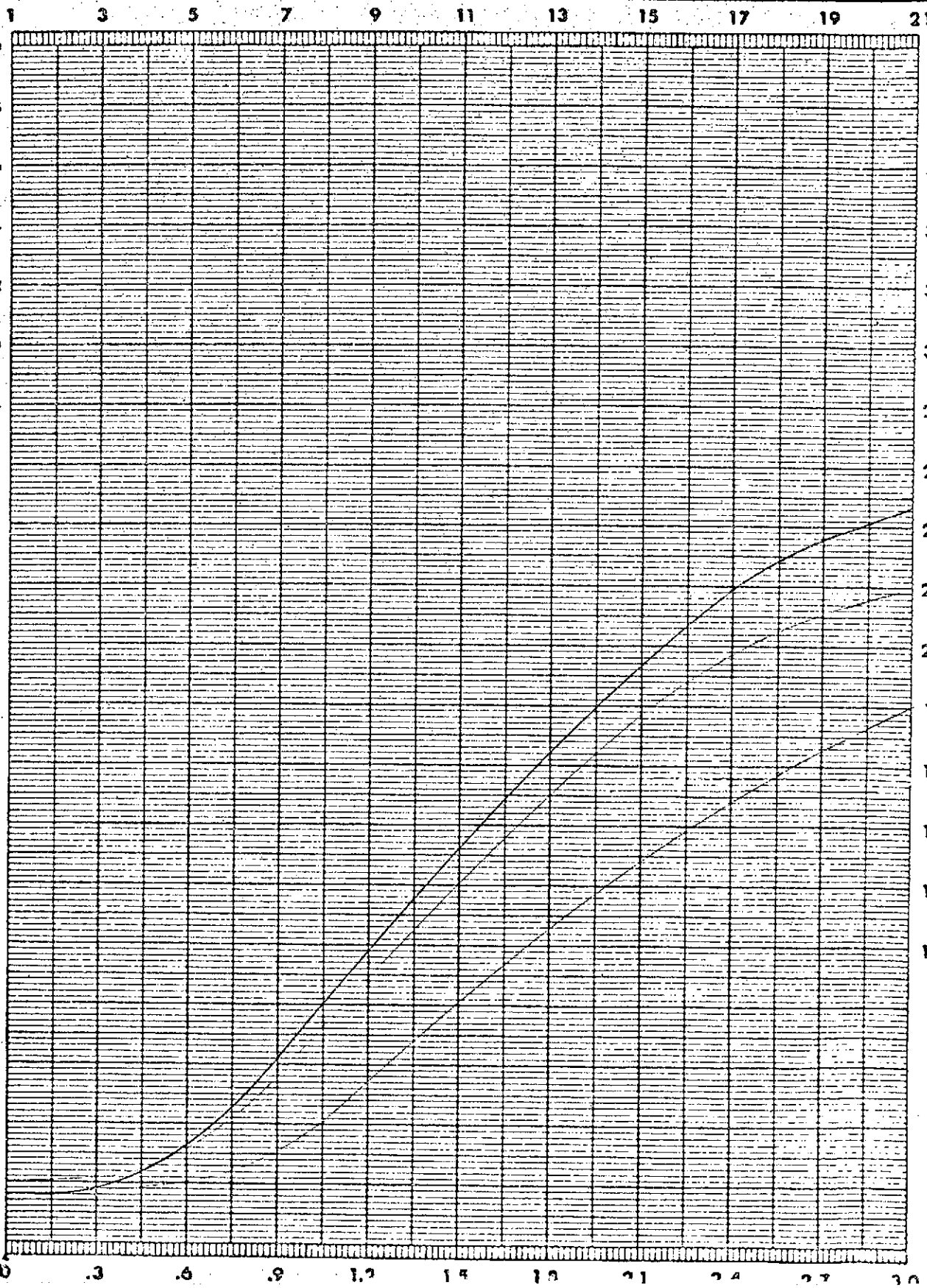

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ABSOLUTE LOG E AT R.L.E. - 0 -10

771 21

DATE June 72 CONTROL # C-22 100° Preh. 104° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 °K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____

pH _____

TA _____

TRP _____

KB_r _____

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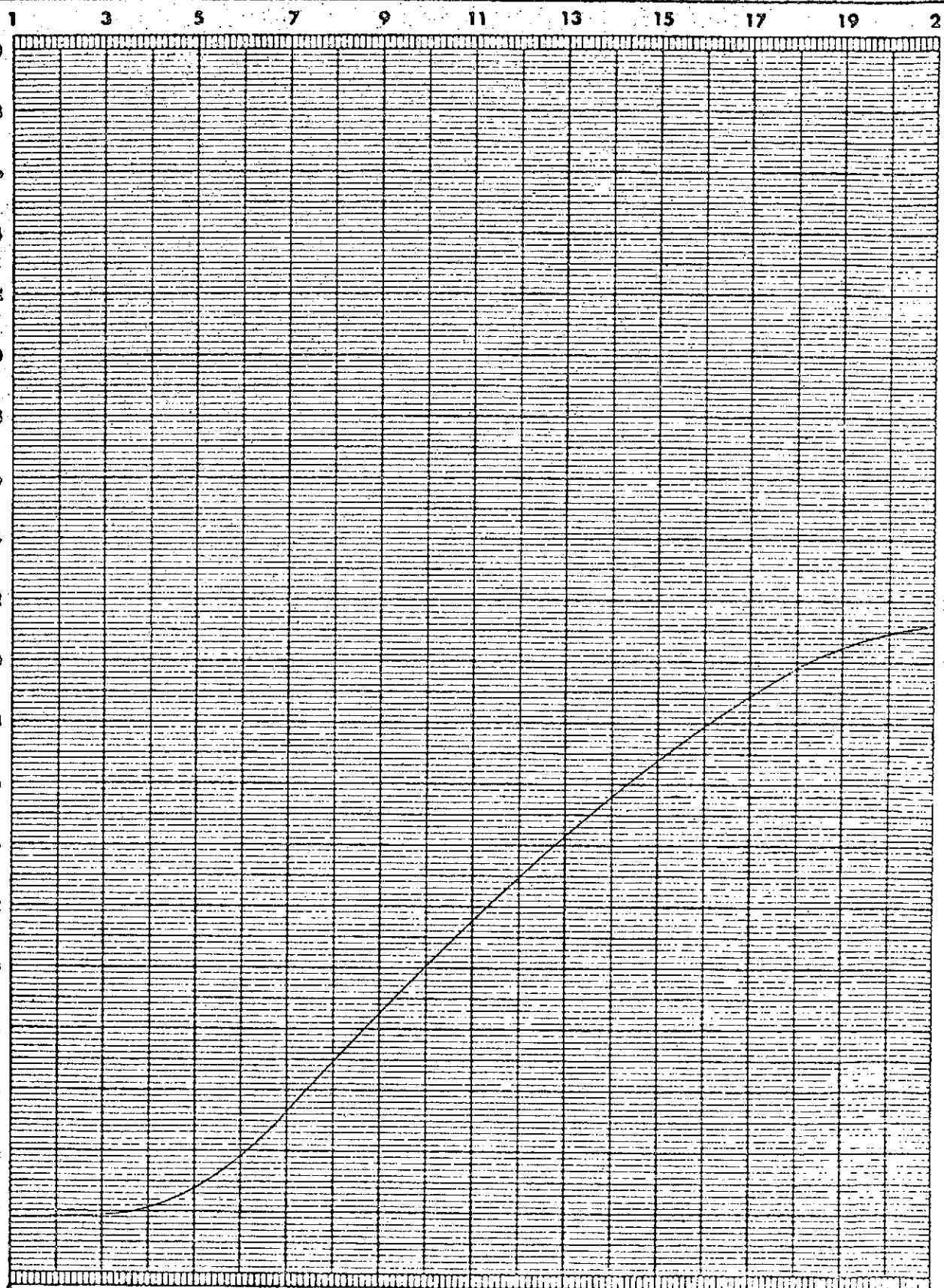

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ABSOLUTE LOG E AT R.L.E. = 0

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T71-21

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972 729-259/13

DATE June 72 CONTROL # 0-22 Preh. 1000 1040 TASK HT-59 PREPARED BY E. W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

SP GR _____
pH _____
TA _____
TRP _____
KB_r _____

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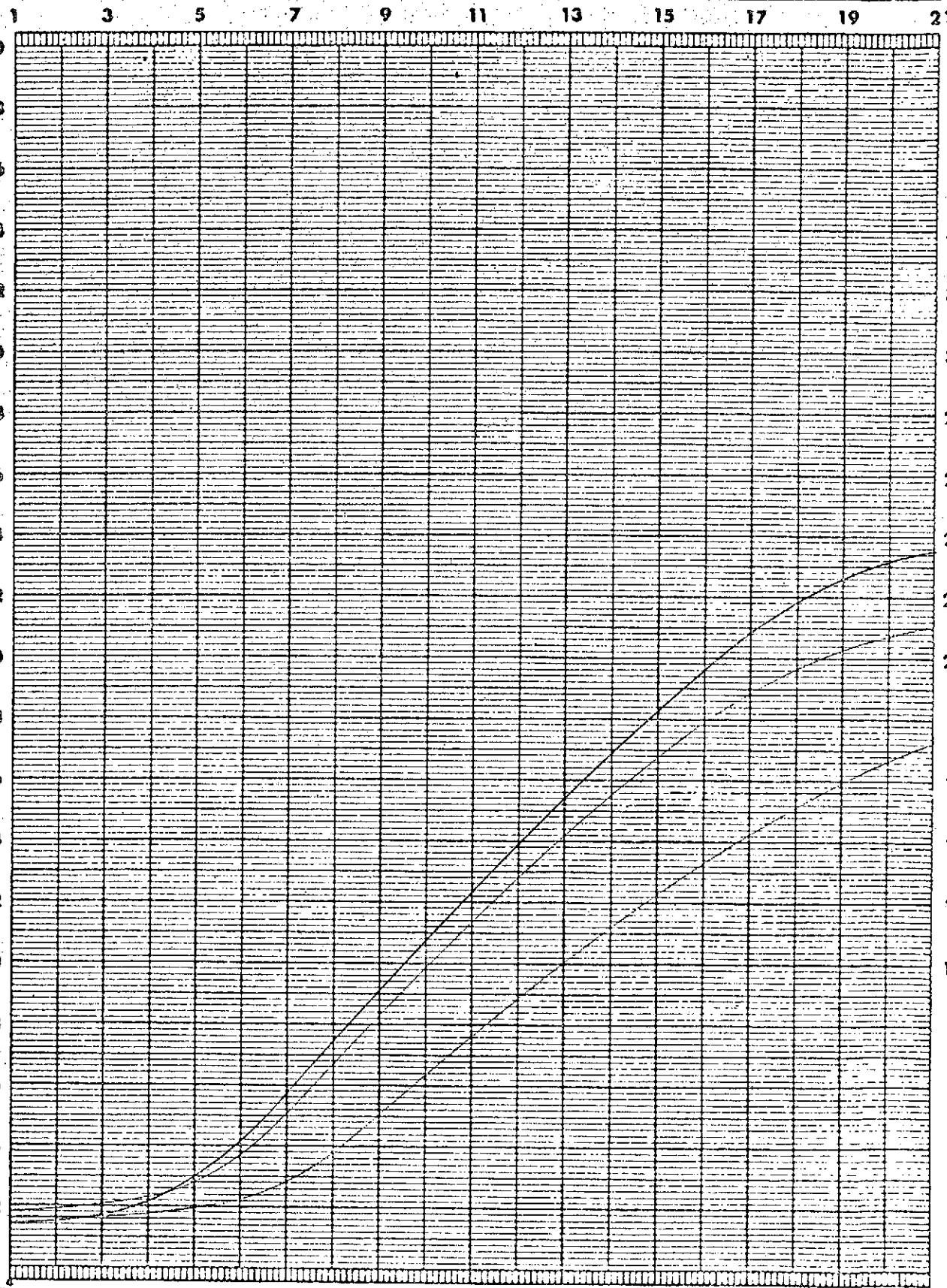

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ABSOLUTE LOG E AT R.L.E. - 0 -10

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972—779-259/196

C-22 100°

DATE June 72 CONTROL # Preh. 104° TASK HT-59 PREPARED BY EW

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 24	TEMP °F _____ TIME _____	FILTER Visual
		SPEED ( ) _____
		D-MAX _____
		GAMMA _____
		BASE + FOG _____

CHEMICAL ANALYSIS

SP GR

pH

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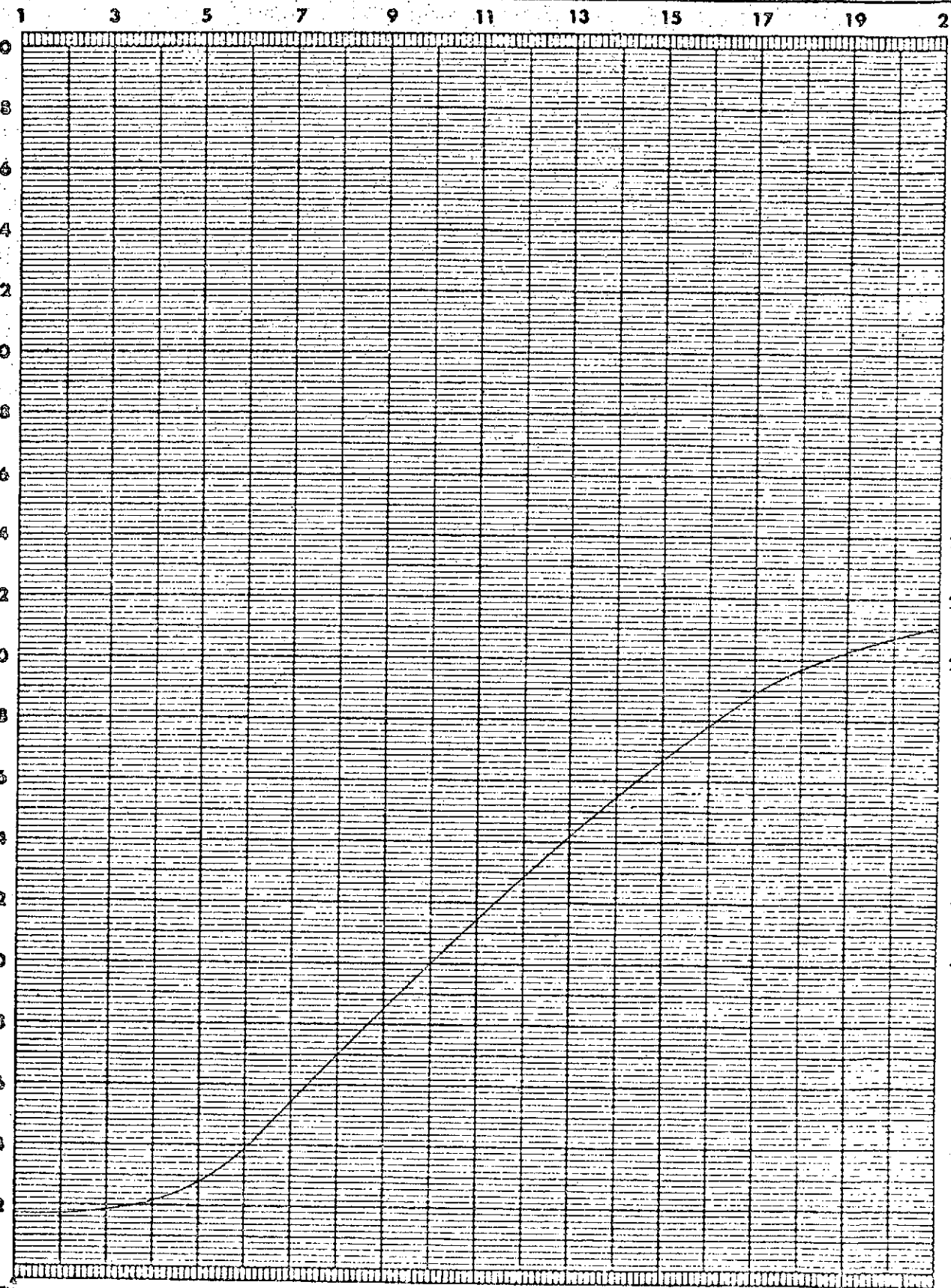

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ABSOLUTE LOG E AT R.L.E. 0

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771-21 U.S. GOVERNMENT PRINTING OFFICE 1972 728-758/1

C-22 100°

DATE June 72 CONTROL # Preh. 104° TASK HT-59 PREPARED BY E.W.

FILM 2445 EMULSION # _____ MFG E.K. Co. EXPIRATION DATE _____

EXPOSURE DATA	PROCESSING DATA	DENSITOMETRY
SENSITOMETER 1-B	PROCESSOR 1411	INSTRUMENT Macbeth
ILLUMINANT 2850 K	CHEMISTRY _____	TYPE TD 203
TIME _____ SEC.	SPEED _____ TANKS 7.5 FPM	APERTURE SIZE 4 MM
FILTER 5500 & 2A	TEMP °F _____ TIME _____	FILTER Status M

SPEED ( ) _____
D-MAX _____
GAMMA _____
BASE + FOG _____

CHEMICAL ANALYSIS

_____ SP GR

_____ pH

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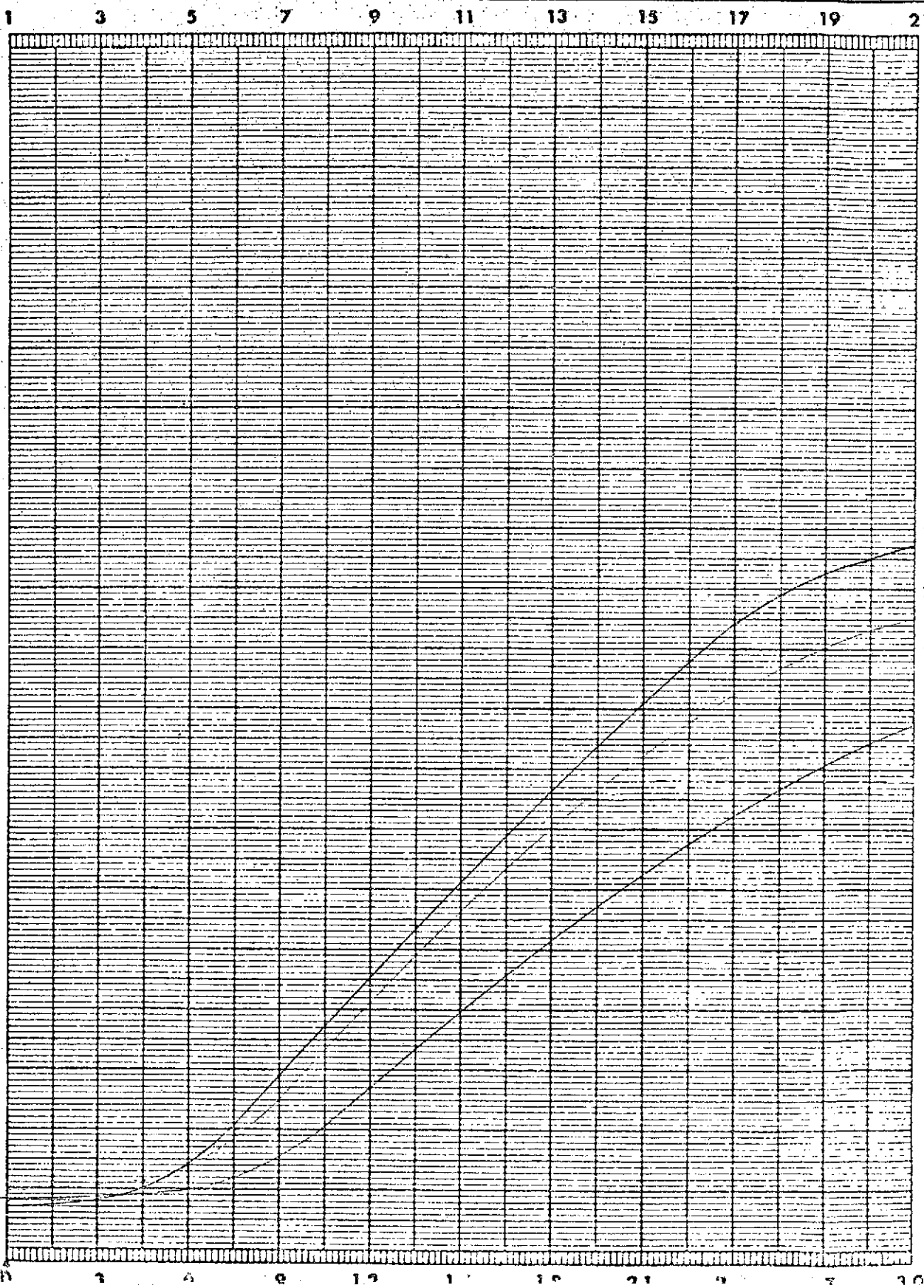

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ABSOLUTE LOG E AT R.L.E. = 0

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